BridgeStation on the Web

User Manual

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KB Article ID: 32

Open Structure

Obtaining a Structure Listing

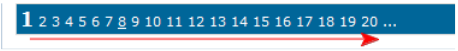
This is the first item in the Actions panel and is used to open individual structures for viewing and editing.

This screen allows you to see a list of all your structures, which you can open any one of them by clicking on their name.

Most boroughs will only see their own structures listed, sector leaders and package administrators will able to see all structures however.

Initially the first 20 structures are shown, sorted by name.

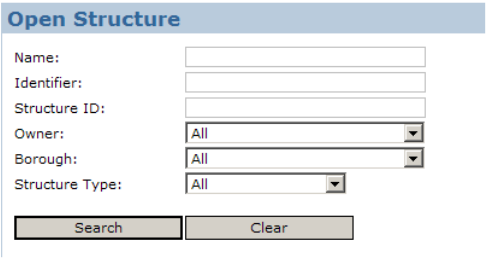
Clicking on the page numbers at the bottom of the structure listing will allow you to move forward by pages.



Filtering

A faster way to locate a structure in the list is to make use of the filters. The filters allow you to search by Structure Name, Identifier, ID, Owner, Borough and S combinations of all of these categories.

When using the Name category you don't need to enter the full name of the structure, just enough of the name so as to limit the list.



For example, if you are looking for Bonesgate Stream Access Bridge. Simply enter the word bonesgate into the search criteria field and click **Search**. The list wi structures containing the characters you have entered.

KB Article ID: 46

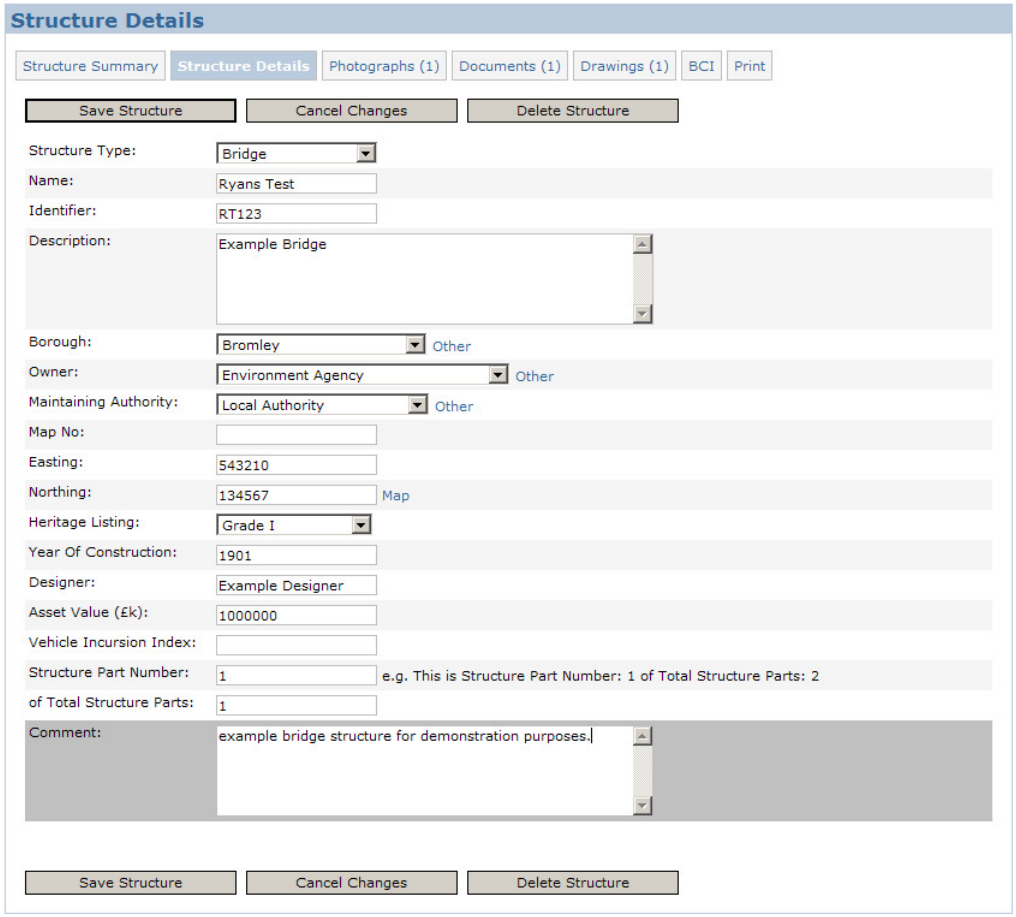
Structure Details

Click on the **Structure Details** tab of an opened structure to view/edit a particular structures details.

The first page visible shows basic details about the structure in general, such as its name and location. User the folders in the left hand Structures menu to navigate individual structural elements, assessments, inspection results, etc.

Some of the fields in the database have 'drop down lists' which allow users to select from various pre-defined alternatives. If a user wants a value that isn't the list these fields, which allow values to be entered which are not on the list.

A checkbox allows the users to either enter a non-standard value as a once off, or add the new entry to the list so it is visible next time. Customisations to these lis the same borough.



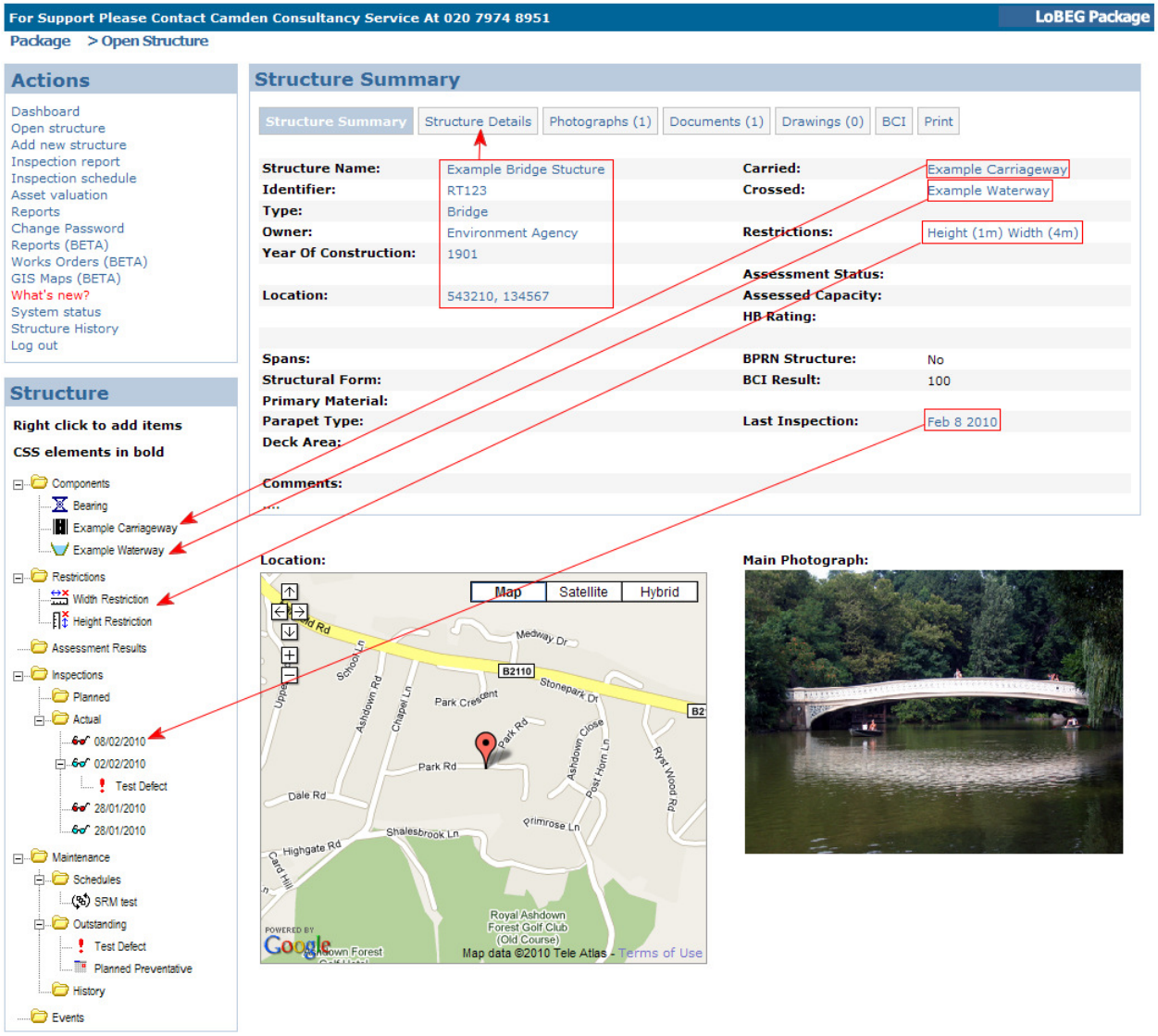
You will notice a **Save** button at the bottom of each page. If you make changes, it is necessary to save these before you move off the page, even if you are only mo structure.

At the top of the page (above the word Actions) you will notice a line telling you where you are in the system hierarchy. You can always click on this hierarchy to re in the system.

KB Article ID: 33

Structure Summary

The Structure Summary
Once you click on the structure name, it will be opened up in a screen similar to the one shown here.

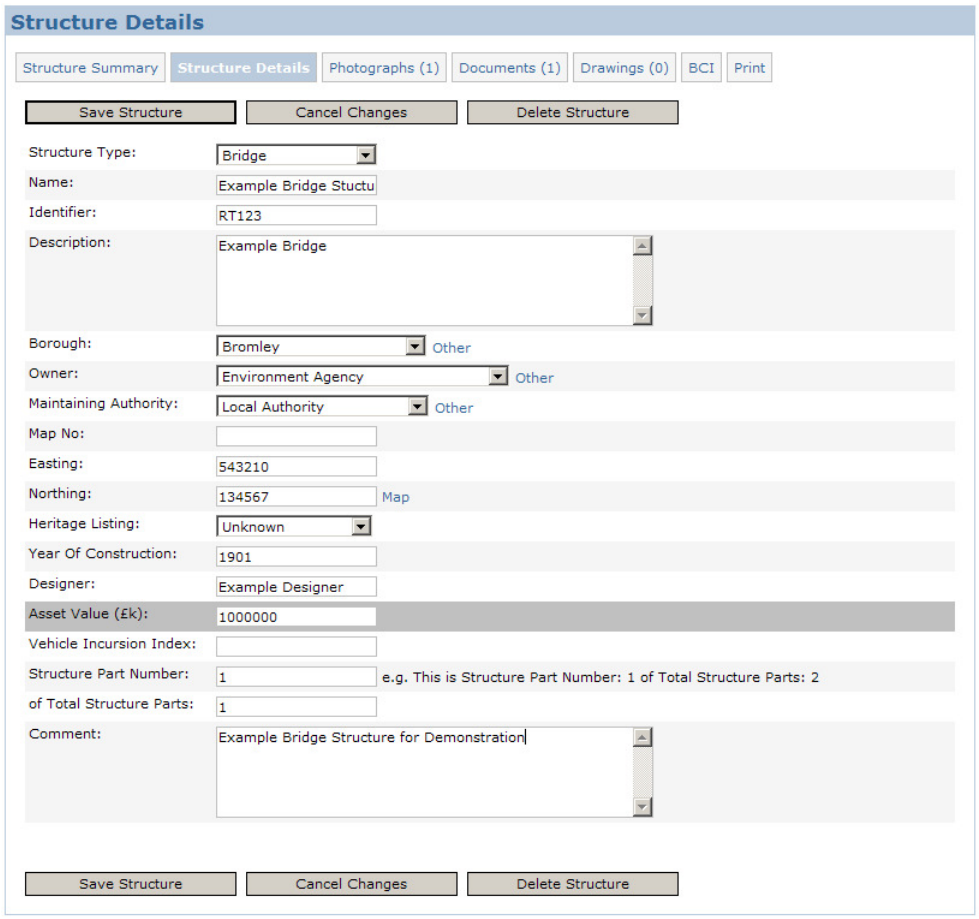


The Structure Summary page shows basic details about the structure, such as its name and location.

The folders on the left allow users to navigate to other pages which show details of individual structural elements, assessments, inspection results, etc.

Many of the Structure Summary fields can be edited via the Structure Details tab at the top, whilst others can be edited using the components on the left as sh

Editing the Structure Details
Click on the Structure Details tab at the top. You will be redirected to a page such as the one below where you can make changes to the structure's details.



Some of the fields in the database have 'drop down lists' which allow users to select from various pre- defined alternatives.

You will notice a Save Structure button at the bottom of each page.

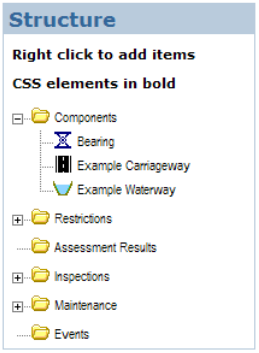
If you make changes, it is necessary to save these before you move off the page, even if you are only moving to another element of the same structure.

KB Article ID: 34

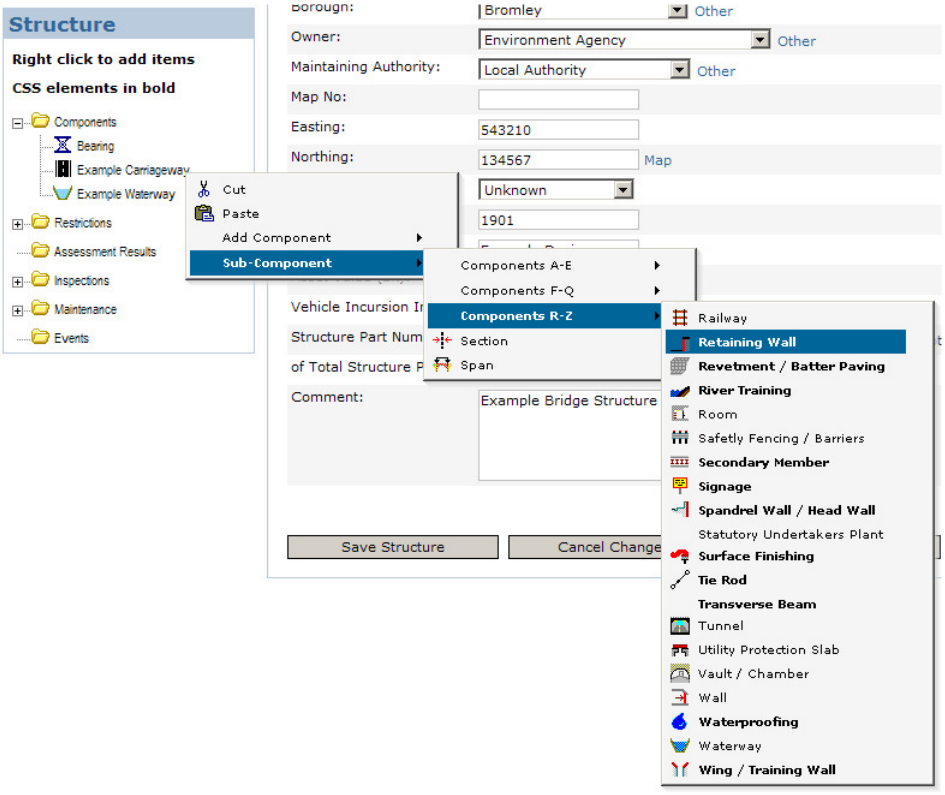
Components

Components are located in the folder view to the left of the screen.

Click on the (+) symbols to open up the folders.



Right click on an individual element to add new elements. You can add new components to a structure or you can add sub-components to existing components



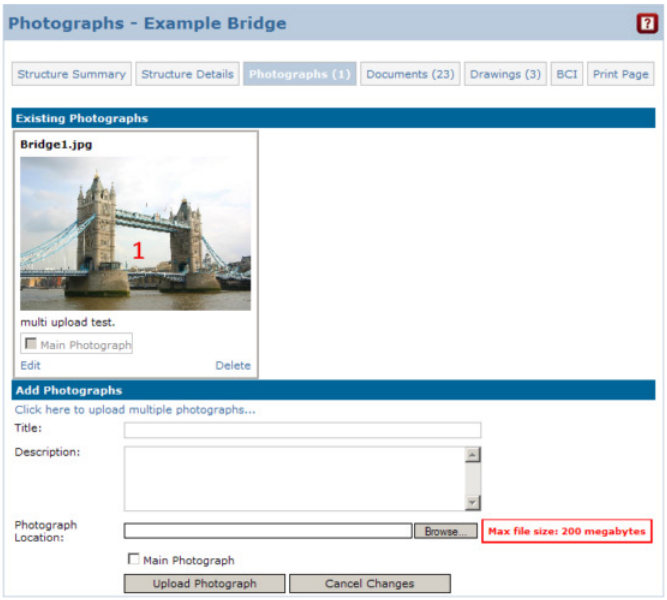
If you make any changes, you need to press the Save Structure button before moving to another element.

If you edit a field and then attempt to move away without saving you will be prompted to return to the page so that you can save your changes.

KB Article ID: 43

Photographs

To add a photo, select the Photographs tab and then press the **Browse...** button next to the Photo Location field.



This will then prompt you to select a file from your PC for upload. You also have the option of entering a title, and description.

You can make use of the **Main Photograph** check box to have that particular photo display on the Structure summary page.

Once you have entered these, press the **Upload Photograph** button to upload your photo and save it.

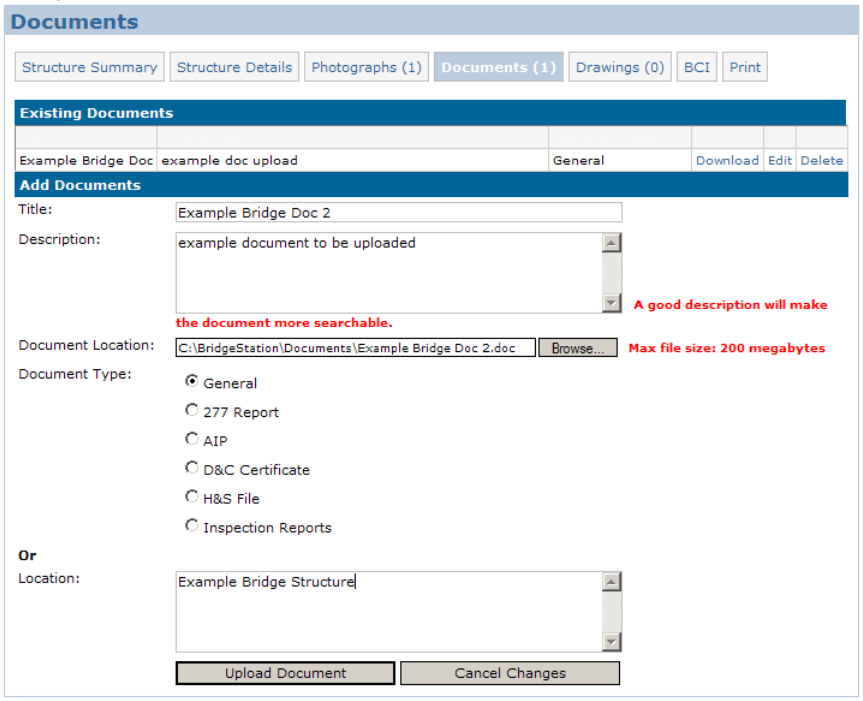
KB Article ID: 44

Documents

Click on the Documents tab of an opened structure to view a list of existing documents assigned to the structure.

From here you are also able to Add new documents to the structure. Complete the Title and Description field, then click browse to locate the desired document. document type that best describes the document to be uploaded, or complete the location field.

Click **Upload Document** to add and save the document.



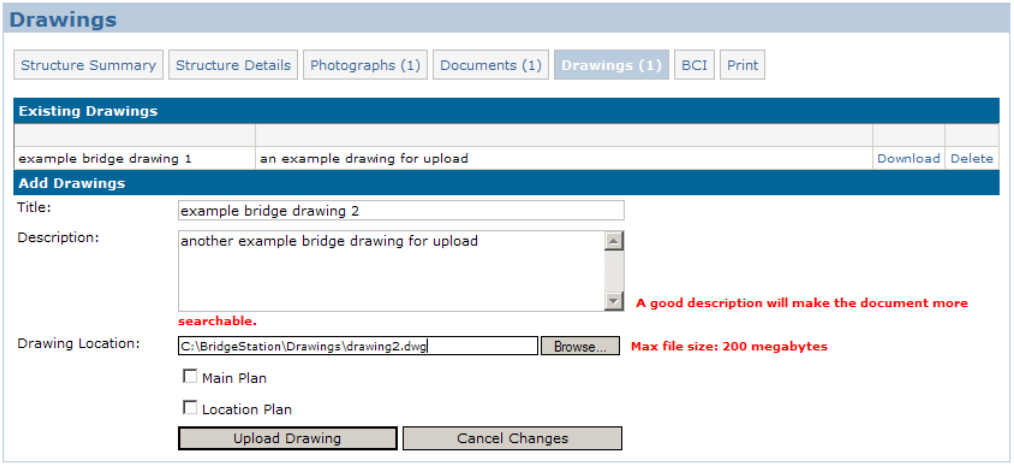
You can make use of the Location fields to keep notes about where you keep paper documents.

KB Article ID: 45

Drawings

Click on the Drawings tab of an opened structure to view the existing drawings assigned to the structure.

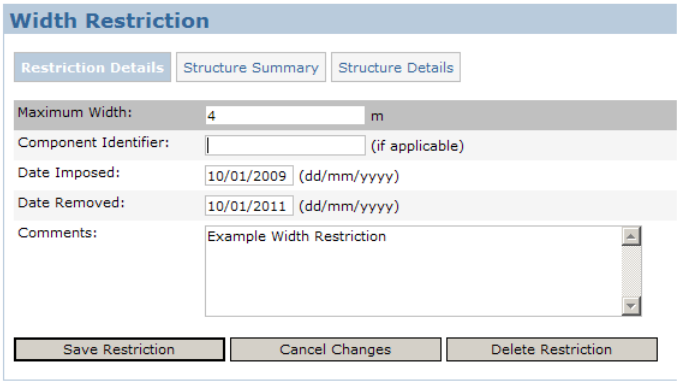
You can also upload new drawings using the Add Drawings section. Complete the Title and Description fields, and locate your .dwg file using the browse button. check boxes and then click **Upload Drawing**.



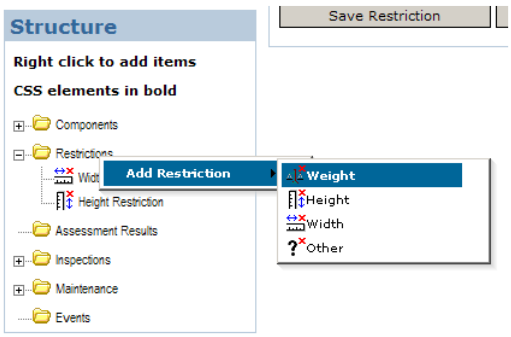
KB Article ID: 35

Restrictions

Click on a Restriction in the left-hand structure element tree to view its details. From here you can update the Restriction details, making sure to click Save Res



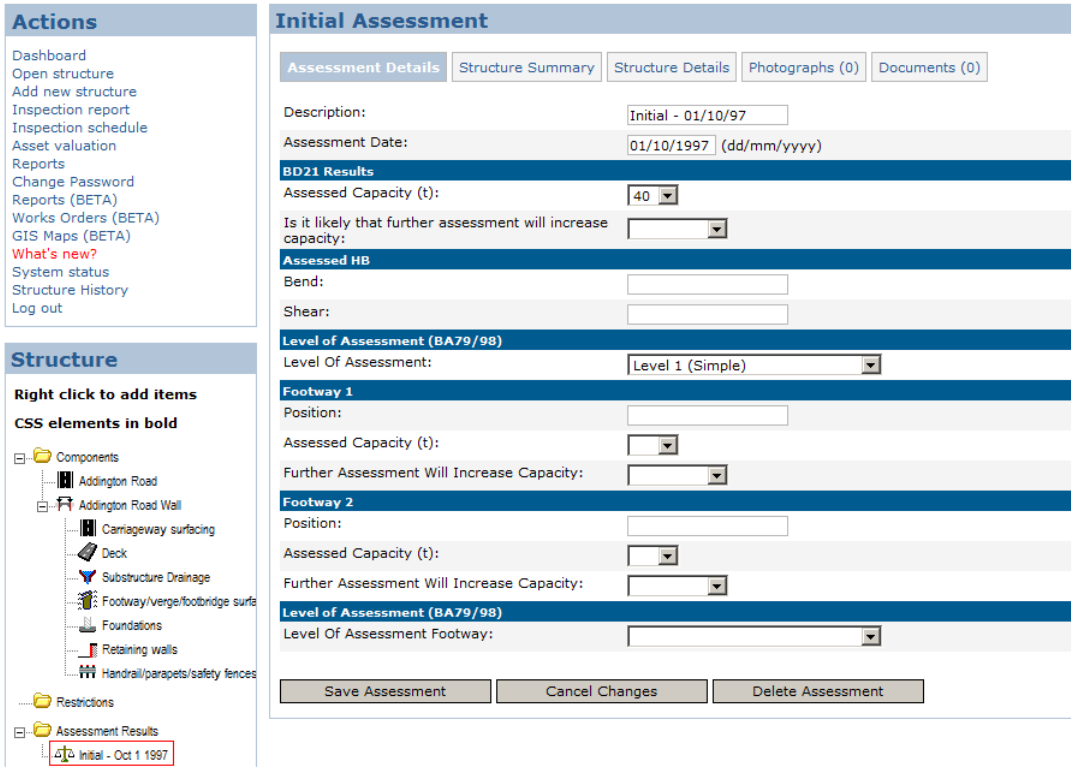
Right click on the Restrictions folder or an existing restriction to add a new restriction. Available Restriction types include: Weight, Height, Width and Other whic restriction.



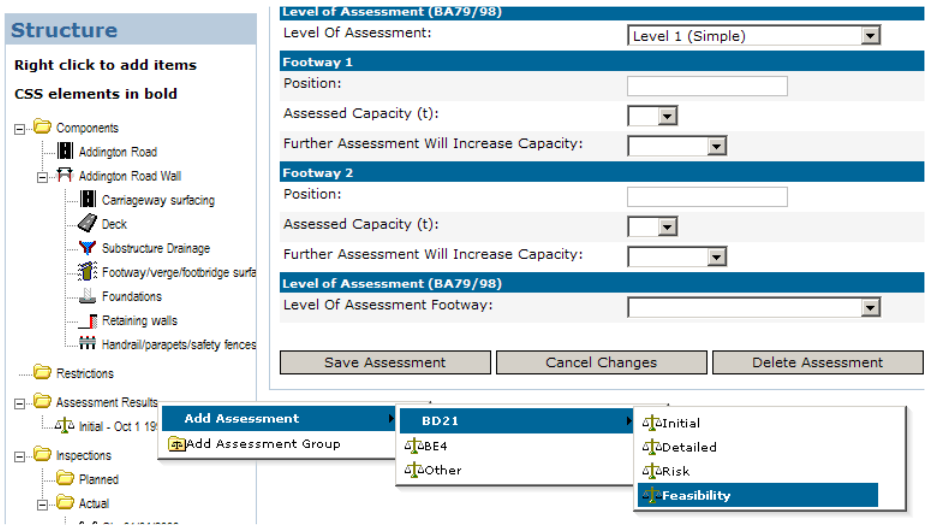
KB Article ID: 36

Assessments

Expand the Assessment Results folder in the Structure element tree and click on an Assessment to view its details. See example below.
You can also make updates to the assessment details remembering to save your changes before navigating away from the page.



To add a new assessment right click on the Assessment Results folder or an existing assessment and select the assessment type you wish to add.
This will add the assessment and open up the details for the user to make edits.

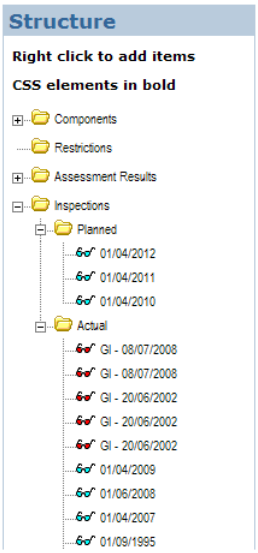


KB Article ID: 37

Inspections

Inspection Types and Inspection Details
The inspection tree is broken down into Planned and Actual inspections. Planned Inspections are inspections that are dated in the future, Actual Inspection are i

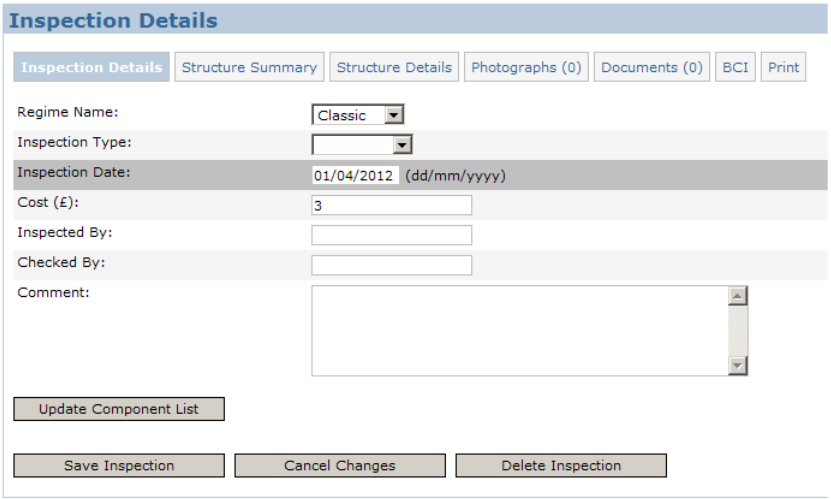
The system automatically groups the inspections into their correct folder.



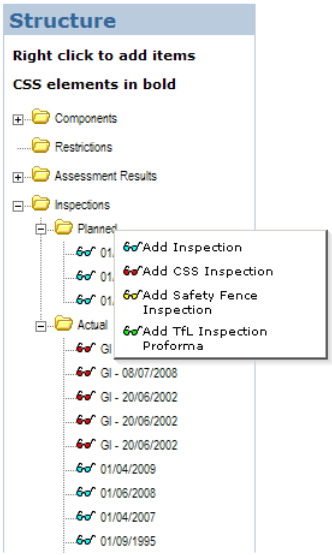
There are also two main types of inspections – regular inspections and County Surveyors Society (CSS) inspections. Regular inspections are displayed as blue s
red.

Also available are Safety Fence and TfL inspection proforma.

To view an individual inspection left-click on the desired inspection to bring up the inspections details. From here you can update the details making sure to sav
from the page.



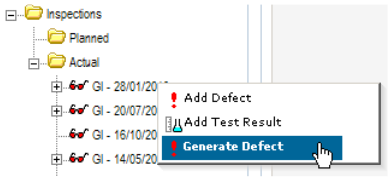
Adding new inspections
To add a new inspection, right click on the Planned or Actual folder (under Inspection) and select the new inspection type. You will then be able to add inspectio
saving the form.



A regular inspection is based on the components and sub- components already setup for your particular structure.

A CSS inspection is all the components available, not necessarily related to your structure.

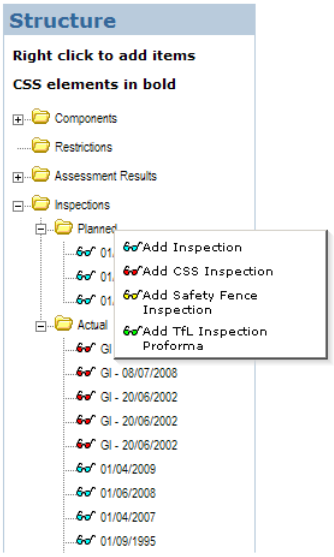
Adding Test Results and Defects
To add Test Results and Defects to an existing inspection right-click on the desired inspection. There are two ways to generate defects. To manually add individ
To automaticall generate defects based upon a completed CSS inspection form click **Generate Defect**.



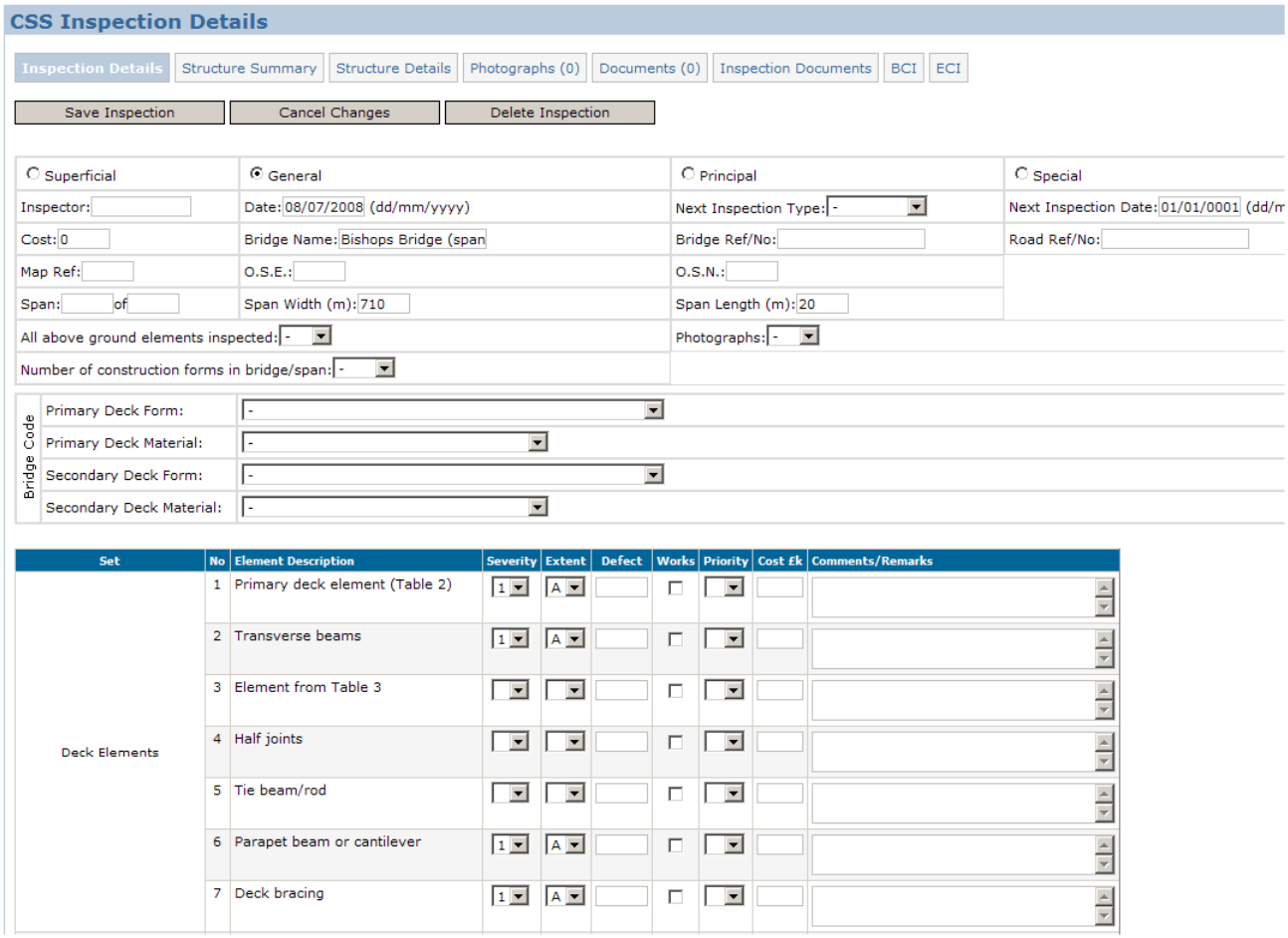
KB Article ID: 38

CSS Inspections

Adding a CSS Inspection
To add a CSS Inspection right-click the Planned or Actual folder and select "Add CSS Inspection" from the drop-down.



The CSS Inspection Proforma
Users can enter these types of inspections without the need to update their inventory.
The format has been made to look as close as possible to the printed form issued by Atkins as part of their BCI guidelines.

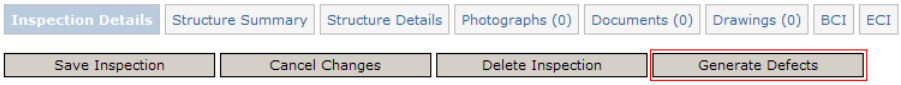


Complete the form making use of the text input fields drop-downs and check boxes. Click "Save Inspection" to commit your changes.

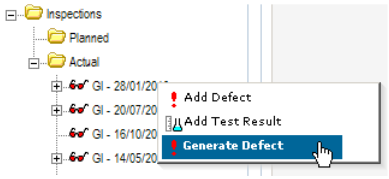
Where you have conducted an inspection and used two of these forms (for a multi span structure for example), simply enter two CSS inspections and give them will consolidate the two inspections automatically when calculating the BCI.

Generating Defects Automatically

Once you have completed your element conditions including severities and extents and selected which elements require works you can generate defects automa
Click the **Generate Defects** button at the top of the form,

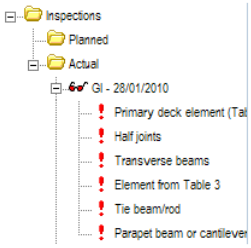


alternatively you can right-click on the relevant inspection icon and select **Generate Defect**.



The system will search through your elements on the form and generate a defect for each element which has it's Works checkbox ticked (as in the below examp

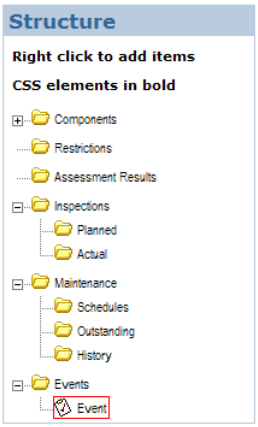
The generated defects are displayed in the Structure menu under the relevant inspection. These individual defects can then be edited by clicking on the relevan



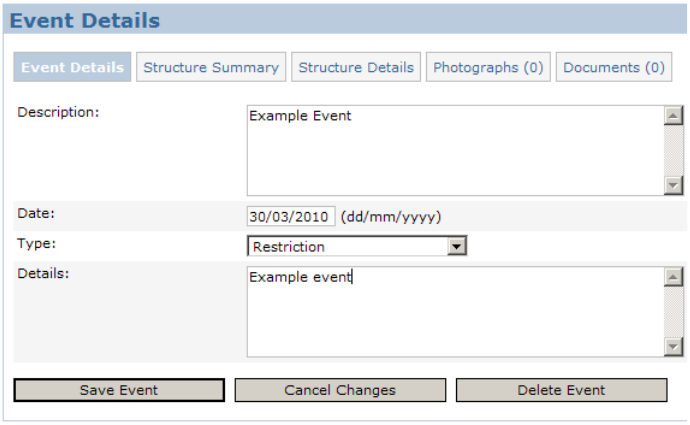
KB Article ID: 39

Events

Left-click on an Event to view its details. Right click on the Events folder or an existing event to add a new event.



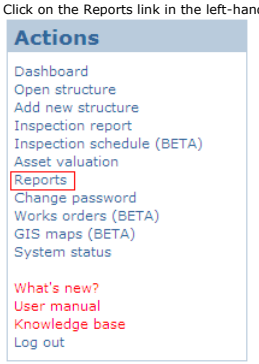
You can then update the events details, remembering to save the event before navigation away from the page.



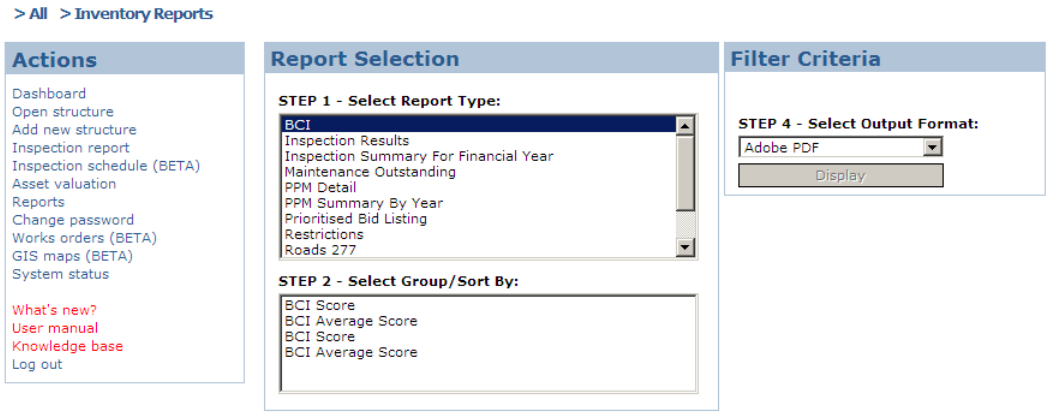
KB Article ID: 48

Reports

Click on the Reports link in the left-hand Actions menu to access the predefined reports.



Firstly select a category of report, then a version. If required you can also select one or two filter criteria which vary depending on the report category. Then press the Display button.



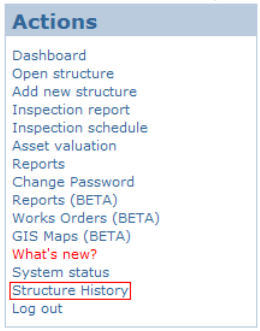
After a short pause, a new window should open containing the report.

Please note you will require the Adobe Acrobat plug-in to be installed on your web browser. This is available as a free download from www.adobe.com and is already installed on most PCs.

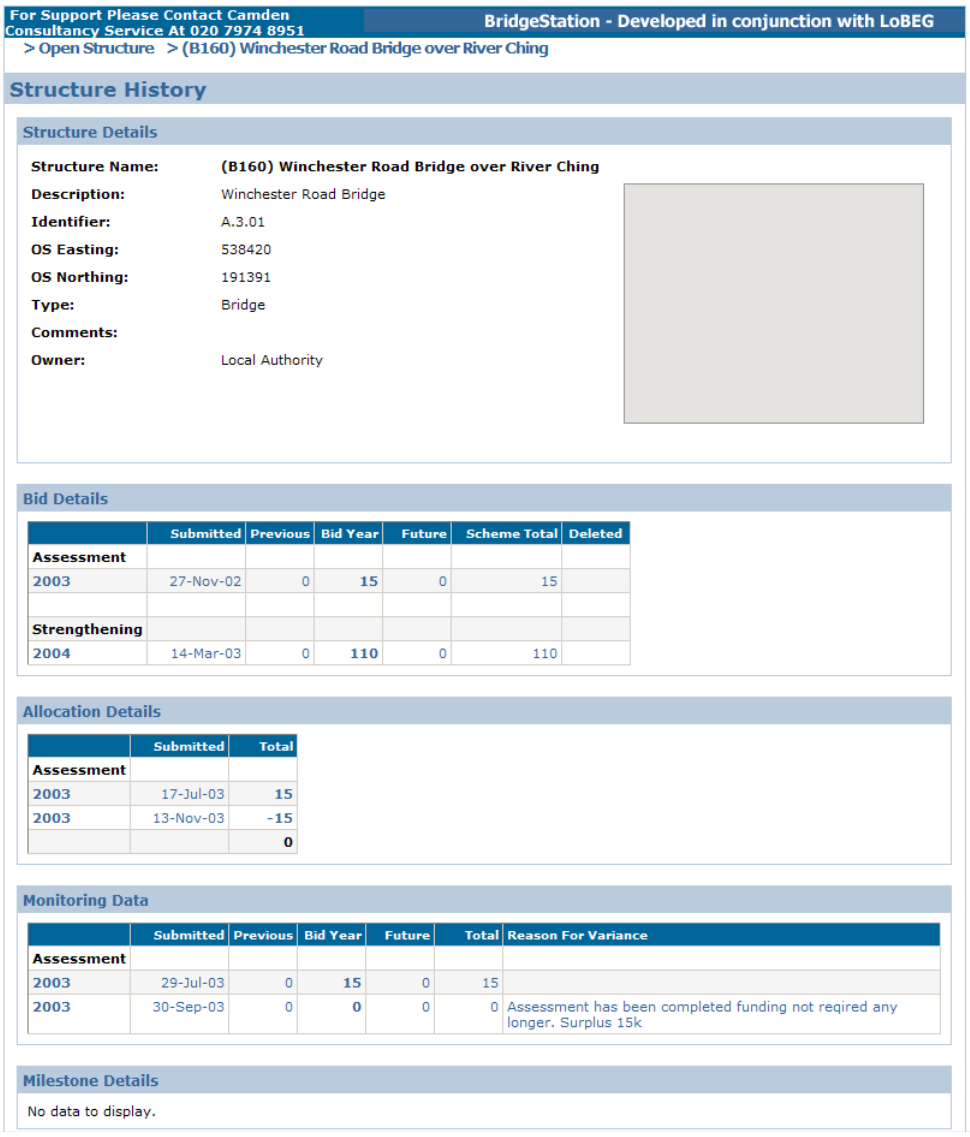
KB Article ID: 49

Structure History

To view a Structure History first open a structure then select the **Structure History** link from the left-hand Actions menu.



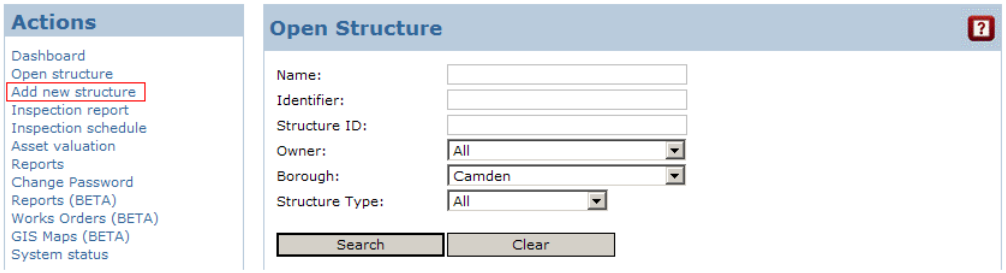
The Structure History page will open. This includes brief structure details along with historical data for the structure for bid details, allocation details, monitoring


For Support Please Contact Camden Consultancy Service At 020 7974 8951
BridgeStation - Developed in conjunction with LoBEG
> Open Structure > (B160) Winchester Road Bridge over River Ching
Structure History
Structure Details
Structure Name: (B160) Winchester Road Bridge over River Ching
Description: Winchester Road Bridge
Identifier: A.3.01
OS Easting: 538420
OS Northing: 191391
Type: Bridge
Comments:
Owner: Local Authority
Bid Details
Submitted Previous Bid Year Future Scheme Total Deleted
Assessment
2003 27-Nov-02 0 15 0 15
Strengthening
2004 14-Mar-03 0 110 0 110
Allocation Details
Submitted Total
Assessment
2003 17-Jul-03 15
2003 13-Nov-03 -15
0
Monitoring Data
Submitted Previous Bid Year Future Total Reason For Variance
Assessment
2003 29-Jul-03 0 15 0 15
2003 30-Sep-03 0 0 0 0 Assessment has been completed funding not reqired any longer. Surplus 15k
Milestone Details
No data to display.

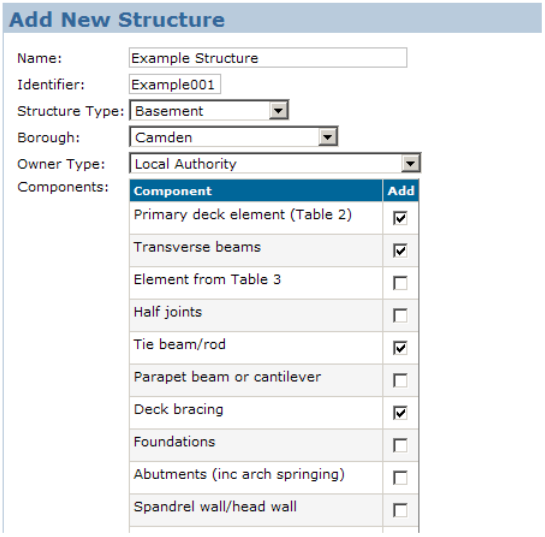
KB Article ID: 51

Add New Structure

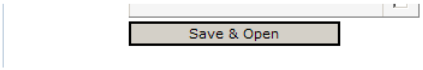
To Add a new structure to a borough's structure listing first click **Open Structure** from the **Actions** menu, then click **Add new structure** from the same menu



The Add New Structure page will open. Here you will be able to give the structure a name, idenifier and use the drop-downs to specify the structure type, borou components to the structure that will appear in the component tree of the open structure.



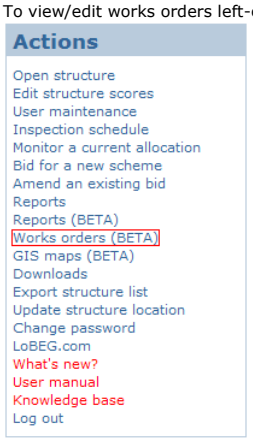
Click the **Save & Open** button to add the structure to the structure listing.



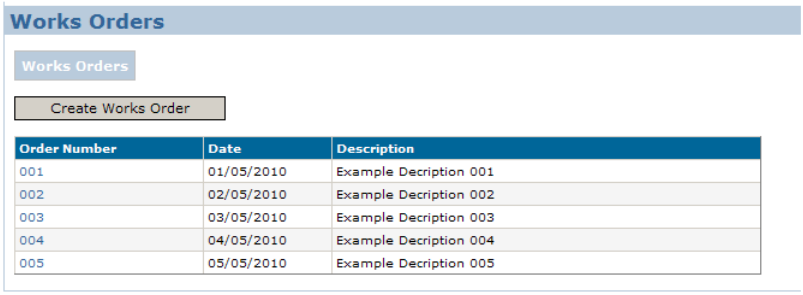
KB Article ID: 55

Works Order

To view/edit works orders left-click the **Works order** Actions menu item



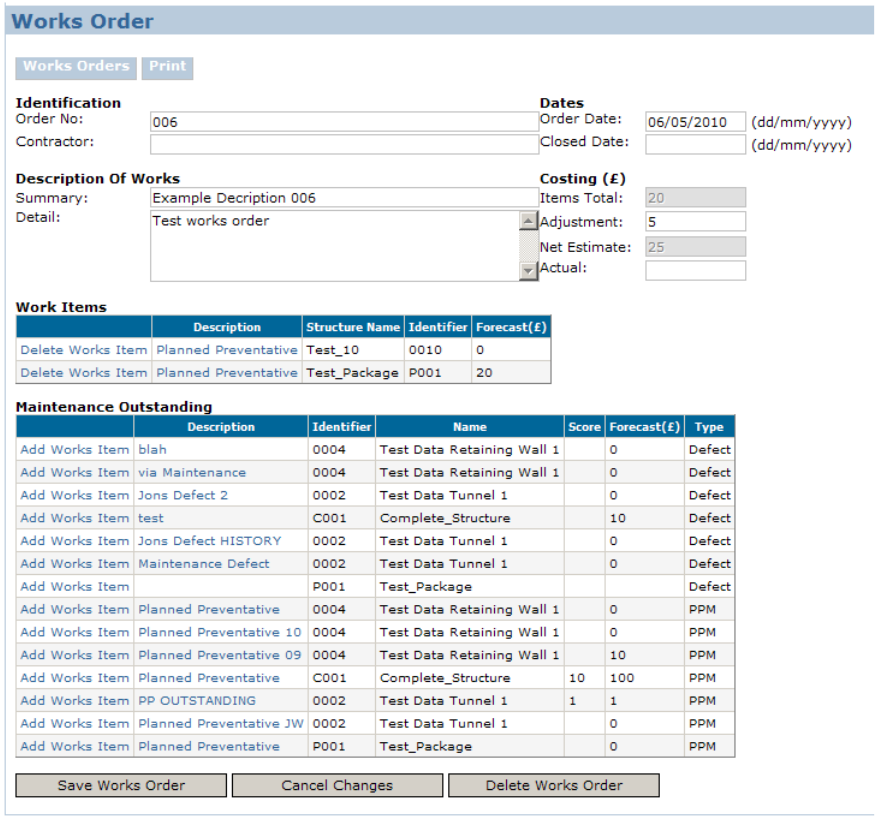
This will redirect you to the works order listing page. This should display all of the works orders for your borough.



To Create a new Works Order click the **Create Works Order** button. To edit an existing works order click on the Order Number of the works order you wish to This will redirect you to the Works Order edit page.

From here you can make use of the input boxes to populate supporting information regarding your works order.

- Works Items can be attached to the Order from the Maintenance Outstanding list by click the **Add Works Item** links to the left of each item.
- To remove a works item click the **Delete Works Item,** this will remove the item from the order and return it to the Maintenance Outstanding listing.
- The **Items Total** field is populated automatically with a sum of all the **Forecast (£)** amounts for added works items.
- The **Net Estimate** is a sum of the **Items Total** and **Adjustment** figure.

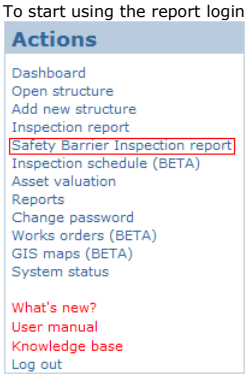


KB Article ID: 67

Safety Barrier Inspection Report

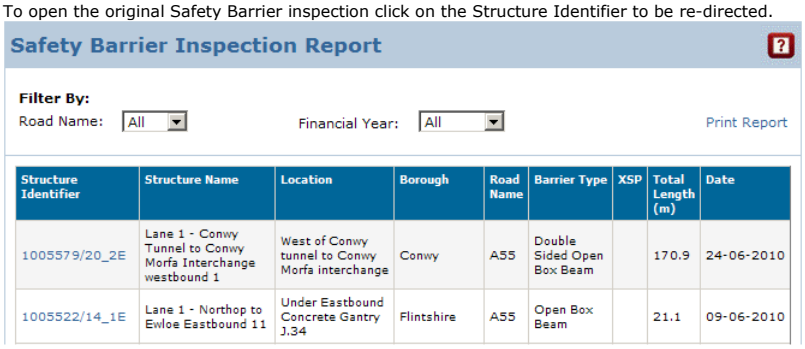
The Safety Barrier Inspection Report is currently available for the Gwynedd Council version of BridgeStation

To start using the report login in to BridgeStation and click on the Safety Barrier Inspection report link in the left-hand Action menu.

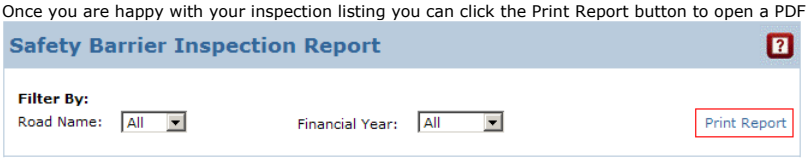


You will be presented with a list of Safety Barrier Inspections ordered by the Structure's Identifier. You can use the Road Name and Financial Year filters to furtl

To open the original Safety Barrier inspection click on the Structure Identifier to be re-directed.



Once you are happy with your inspection listing you can click the Print Report button to open a PDF report of with summary details of the inspections.

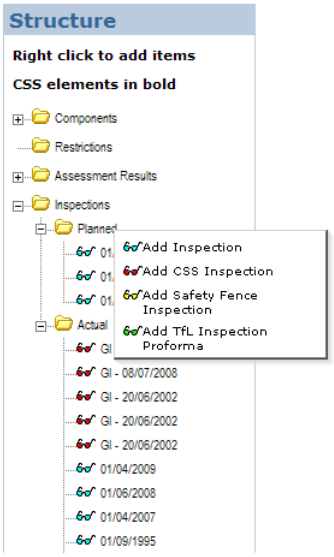


KB Article ID: 68

TfL CSS Inspections

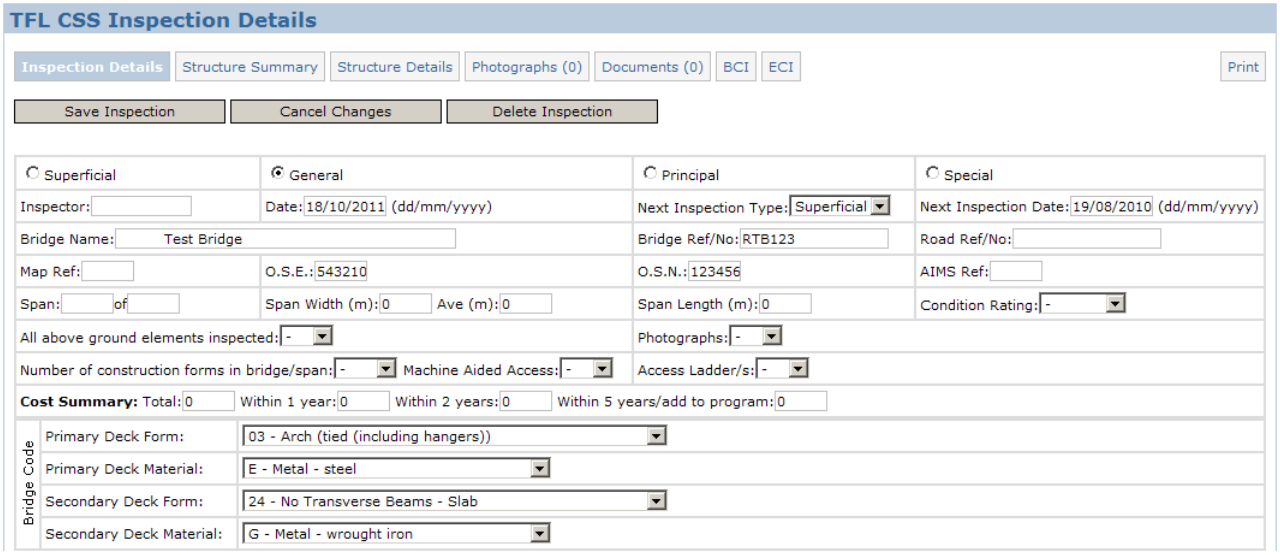
This inspection type is only available for the TfL version of the BridgeStation website.

Adding a TfL CSS Inspection
To add a TfL CSS Inspection right-click the Planned or Actual folder and select "Add TfL Inspection Proforma" from the drop-down.

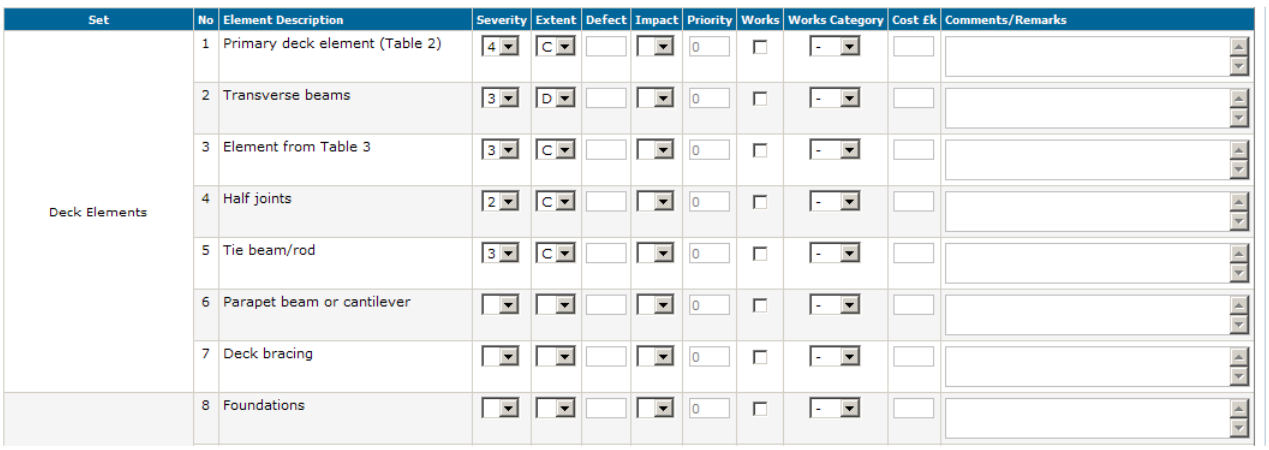


Users can enter these types of inspections without the need to update their inventory.

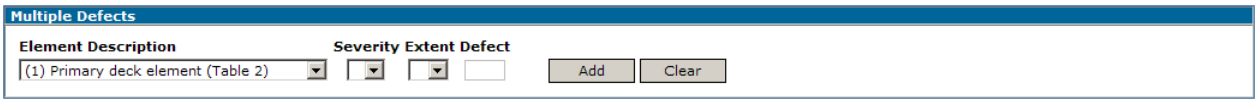
Complete the form making use of the text input fields drop-downs and check boxes. You can click "Save Inspection" at any time to commit your changes.



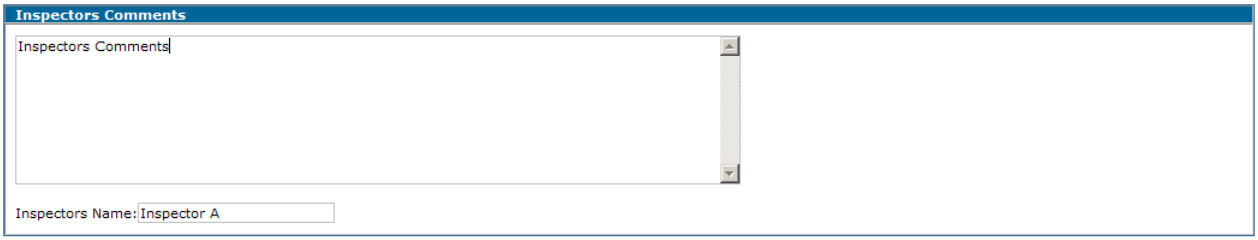
To complete an element inspection use the element grid to record Severities and Extents. These values are used later in the Bridge Condition Index (BCI) calcul
Complete the Severity, Extent and Impact fields for an element to also get a priority score for that element. Priority scores are displayed in the priority column
you click "Save Inspection".

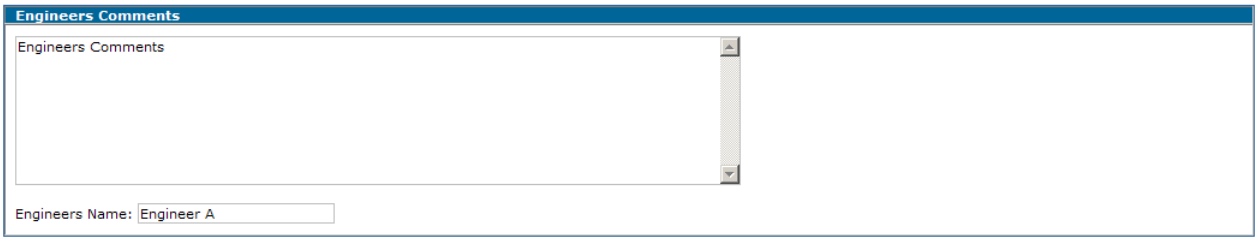


If you need to have more than one example of an element included in your inspection make use of the Multiple Defects functionality. Select an element type, cc
then click Add to add the element to the main element grid.



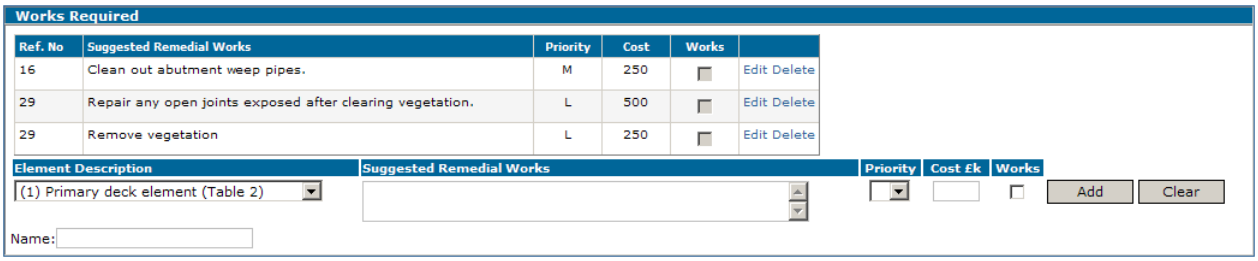
The TfL Inspection Proforma also allows you to add comments from your inspectors and engineers.





To specify the remedial works for a structure users can make use of the Works Required section.
First pick an element type, then add a short description of the remedial works. You can also include a priority and a cost estimate.
Click Add to add the works item to the list.

If you need to make a change to an existing works item click the "Edit" button next to the works item in question.
To delete an unwanted works item click the "Delete" button.



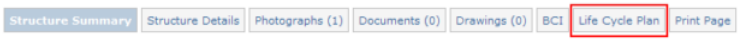
Where you have conducted an inspection and used two of these forms (for a multi span structure for example), simply enter two CSS inspections and give them
will consolidate the two inspections automatically when calculating the BCI.

KB Article ID: 75

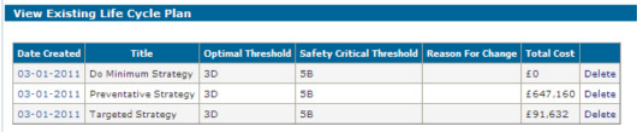
Life Cycle Planner 1 - Creating a New Plan

To begin a life cycle plan first open the structure you want to create a plan for.

Whilst on the Structure Summary page click the **Life Cycle Plan** tab at the top



Viewing Existing Life Cycle Plans
At the top of the Life Cycle Plan page you can see a list of existing plans. This list summarises the details of the plans. Click the **Delete** link at the end to remov
Created link on the left to edit an existing plan.


View Existing Life Cycle Plan

Date Created	Title	Optimal Threshold	Safety Critical Threshold	Reason For Change	Total Cost	
03-01-2011	Do Minimum Strategy	3D	5B		£0	Delete
03-01-2011	Preventative Strategy	3D	5B		£647,160	Delete
03-01-2011	Targeted Strategy	3D	5B		£91,632	Delete

Creating a New Life Cycle Plan
Below the View Existng Life Cycle Plan section is the Create Life Cycle Plan section. Here you can:

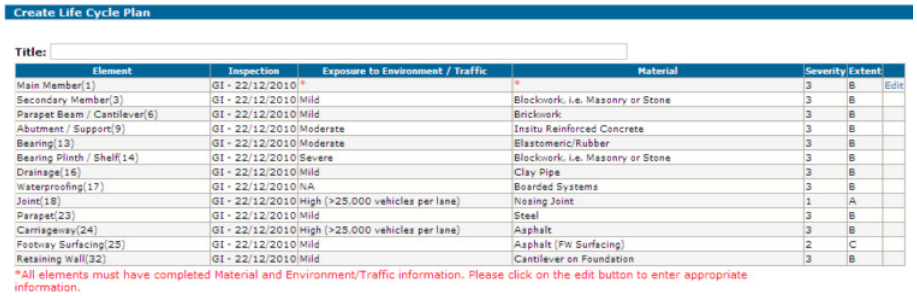
1. Give a title to the new plan
2. Specify element Environment/Traffic values using the drop downs
3. Define the intervention threshold

The element listing is restricted to:

- those elements that have a corresponding component in the Components folder in the left-hand Structure menu and,
- elements that have also been inspected as part of at least one CSS inspection in the Inspection folder in the left-hand Structure menu.

So if there is an element missing from the Create Life Cycle Plan element listing make sure that it has both a component and a condition rating from at least on
elements condition rating from the most recent CSS inspection acts as the Starting Condition for the element when the life cycle plan deteriorat

To generate a plan:
1. Add a title to the plan. Make using the text input at the top
2. Check that all elements have Exposure to Environment/Traffic and Material values. If they do not red asterisk warnings will show (see below). Click
Severity/Extent columns to complete this information

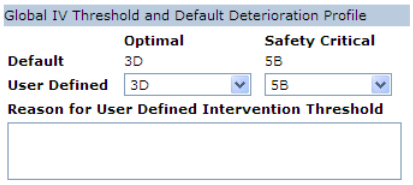

Create Life Cycle Plan

Title:

Element	Inspection	Exposure to Environment / Traffic	Material	Severity	Extent	
Main Member(1)	GI - 22/12/2010	*	*	3	B	Edit
Secondary Member(3)	GI - 22/12/2010	Mild	Blockwork, i.e. Masonry or Stone	3	B	
Parapet Beam / Cantilever(6)	GI - 22/12/2010	Mild	Brickwork	3	B	
Abutment / Support(9)	GI - 22/12/2010	Moderate	Insitu Reinforced Concrete	3	B	
Bearing(13)	GI - 22/12/2010	Moderate	Elastomeric/Rubber	3	B	
Bearing Plinth / Shelf(14)	GI - 22/12/2010	Severe	Blockwork, i.e. Masonry or Stone	3	B	
Drainage(16)	GI - 22/12/2010	Mild	Clay Pipe	3	B	
Waterproofing(17)	GI - 22/12/2010	NA	Boarded Systems	3	B	
Joint(18)	GI - 22/12/2010	High (>25,000 vehicles per lane)	Nosing Joint	1	A	
Parapet(23)	GI - 22/12/2010	Mild	Steel	3	B	
Carriageway(24)	GI - 22/12/2010	High (>25,000 vehicles per lane)	Asphalt	3	B	
Footway Surfacing(25)	GI - 22/12/2010	Mild	Asphalt (FW Surfacing)	2	C	
Retaining Wall(32)	GI - 22/12/2010	Mild	Cantilever on Foundation	3	B	

*All elements must have completed Material and Environment/Traffic information. Please click on the edit button to enter appropriate information.

3. Complete the Intervention Threshold. Here you can either use the drop downs to specify Optimal and Safety Critical thresholds. Or you can stick with the
defined thresholds you must give a reason for doing so in the input box below.


Global IV Threshold and Default Deterioration Profile

	Optimal	Safety Critical
Default	3D	5B
User Defined	3D	5B

Reason for User Defined Intervention Threshold

4. Click the Create Life Cycle Plan button.

From here you can add maintenance to your plan

KB Article ID: 78

Life Cycle Planner 2 - Viewing the deterioration profile

Once you have created a life cycle plan you can view the deterioration profile and start to add maintenance works to the plan.

When you open up the plan at the top will be the plan details table.

Title :	Do Minimum Strategy		
Date created :	03-01-2011	Optimal threshold :	3D
Total 60 year cost :	£0	Safety critical threshold :	5B
Reason for change :			

Below this will be the the deterioration profile. Here you will see a list of all of the elements, their starting conditions along with their colour-coded deterioration

Deterioration Profile

CSS Element	Description	Starting Condition	1	2	3	4	5	6
1 - Primary deck element (Table 2)	Main Member	3B	3B	3B	3B	3B	3B	3B
3 - Element from Table 3	Secondary Member	3B	3B	3B	3B	3B	3B	3B
6 - Parapet beam or cantilever	Parapet Beam / Cantilever	3B	3B	3B	3B	3B	3B	3B
9 - Abutments (inc arch springing)	Abutment / Support	3B	3B	3B	3B	3B	3B	3B
13 - Bearings	Bearing	3B	3B	3B	3D	3E	4B	4D
14 - Bearing plinth/shelf	Bearing Plinth / Shelf	3B	3B	3B	3B	3B	3C	3C
15 - Superstructure drainage	Drainage	3B	3B	3B	3B	3B	3B	3B
16 - Substructure drainage	Drainage	3B	3B	3B	3B	3B	3B	3B
17 - Waterproofing	Waterproofing	3B	3B	3B	3D	3E	4B	4D
18 - Movement/expansion joints	Joint	1A	1A	1A	1A	1A	2B	2B
23 - Handrail/parapets/safety fences	Parapet	3B	3B	3B	3D	3E	4B	4D
24 - Carriageway surfacing	Carriageway	3B	3B	3B	3B	3C	3D	3E
25 - Footway/verge/footbridge surfacing	Footway Surfacing	2C	2C	2D	2D	2D	2E	2E
32 - Retaining walls	Retaining Wall	3B	3B	3B	3B	3B	3B	3B
			£0	£0	£0	£0	£0	£0

Refreshing the deterioration profile

To refresh the deterioration profile and update the plan details and scheme costs you can click the **Refresh** button located at the top of the page.

Refresh

You will need to refresh your deterioration profile page if you have added Maintenance Works or Scheme Costs changes.

Adding Maintenance Works and Scheme Costs

You can click the colour-coded condition cell to begin adding Maintenance Works.
You can click the scheme value cell at the bottom of the deterioration grid to manage your Scheme Costs.

KB Article ID: 76

Life Cycle Planner 3 - Adding Maintenance Works to a Life Cycle Plan

Once you have created a life cycle plan you can view the deterioration profile and start to add maintenance works to the plan.

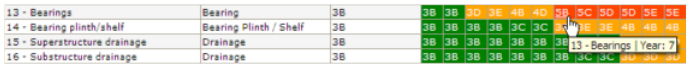
When you open up the plan at the top will be the plan details table.

Title :	Do Minimum Strategy		
Date created :	03-01-2011	Optimal threshold :	3D
Total 60 year cost :	£0	Safety critical threshold :	5B
Reason for change :			

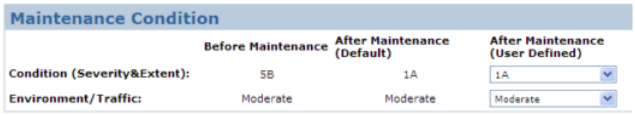
Below this will be the the deterioration profile. Here you will see a list of all of the elements, their starting conditions along with their colour coded deterioration

To add maintenance works

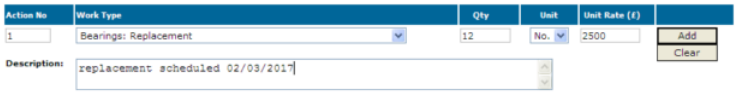
1. Click on one of the cells where you want to make an intervention (as shown below). This will open the **Details of Maintenance Works** di



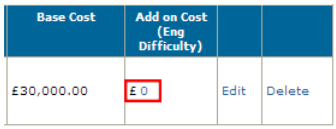
2. Define the After Maintenance Condition. In the **Details of Maintenance Works** dialog you can use the drop downs to define the after mainte Alternatively you can accept the default after maintenance values (see below).



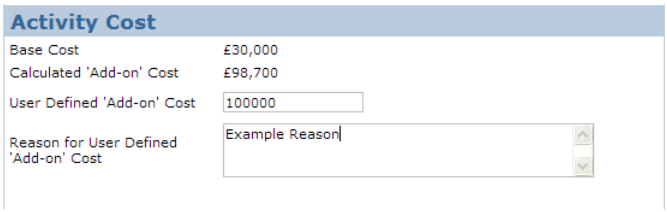
3. Add Maintenance Work Actions. Below the **Maintenance Condition** section you can add Maintenance Work Actions. Use the input boxes and drop downs **Qty** / **Unit Unit Rate (£)** as well as a **Description.** Click the **Add** button to update the maintenance works. You can add multiple Maintenance Work Actions to



4. Adding Engineering Difficulty Add-on Costs to Maintenance Work Actions. To add add on costs for engineering di on Cost (Eng Difficulty) column for an action that has already been added. Click on the cost value (see below) to Difficulty details dialog .



Next make use of the drop-downs and check boxes to select the relevant engineering difficulties and click Save t Cost. If you need to add a user defined engineering difficulty cost you can still do so by using the User Defined 'A providing a reason in the box below (see example below).



5. Saving your Maintenance Works Actions. Once you are happy with your Maintenance Work Actions and any engineering difficulty details, click the **Save** return to the deterioration profile.

Once you have recorded all of your maintenance work interventions you can then manage your scheme costs for a particular year.

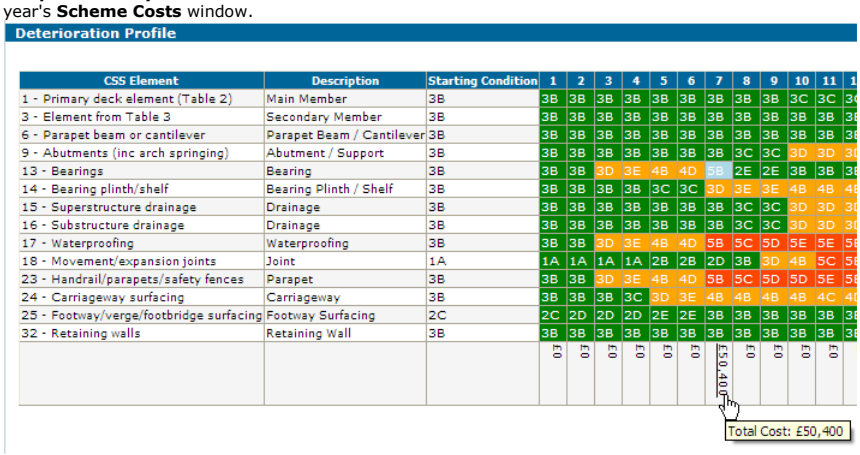
KB Article ID: 77

Life Cycle Planner 4 - Managing Scheme Costs for a particular year

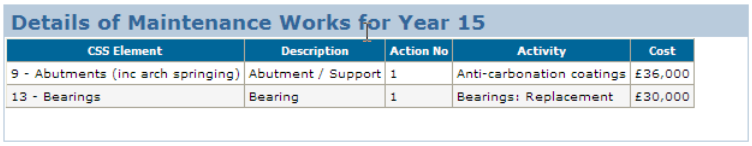
Once you have created a Life Cycle Plan and added maintenance works you can then manage that year's **Scheme Costs**.

To start managing a year's scheme costs

1. Open a Life Cycle Plan and click the Total Cost value. The Total Cost value is located at the bottom of the year column as shown below. Clicking this wil year's **Scheme Costs** window.

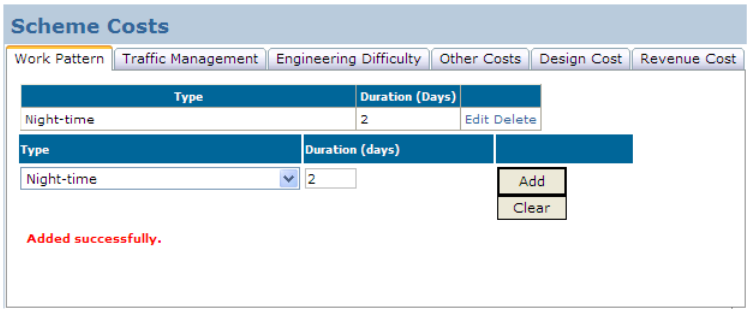


2. Details of Maintenance Works. The **Scheme Costs** window comprises a summary of the all the maintenance works for that year regardless of which elem to.

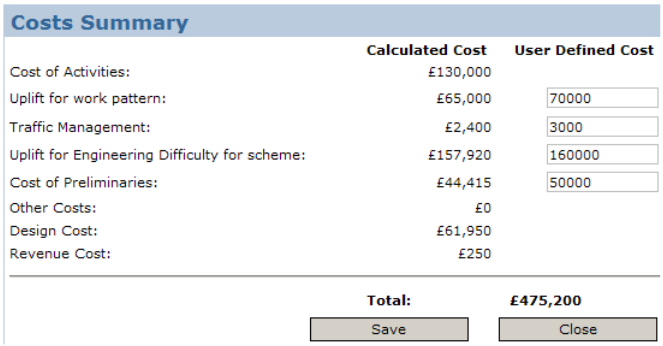


3. Adding Scheme Costs. Below the **Details of Maintenance Works** is the **Scheme Costs** section. This comprises of six tabs where the user can add/adjust

- Work Pattern
- Traffic Management
- Engineering Difficulty (Scheme level)
- Other Costs
- Design Costs
- Revenue Costs



4. Viewing the Costs Summary. Below the Scheme Costs section is the the **Costs Summary**, here the user can view the effect of making various **Scheme C** costs.



The Costs Summary also allows the user to manually define the **Uplift for work pattern, Traffic Management, Uplift for Engineering Difficulty for schen**

To user define the Design Cost click on the **Design Cost tab** in the **Scheme Costs** section.

KB Article ID: 79

Life Cycle Planner - Description of Environment

The following is a description of what the element environment drop-down values refer to.

EXPOSURE ENVIRONMENT	DESCRIPTION	TYPICAL ELEMENT LOCATION
MILD	Structure and/or elements of a structure: ° Generally exposed to mild weather conditions, i.e. may be sheltered or in an environment that results in little or no exposure to severe weather conditions; and ° Not exposed to any aggressive agents, e.g. no exposure to road de-icing salts or 0m away from traffic spray, not exposed to o buried in aggressive soil agents, no exposure to contaminated water, etc.; and ° With no ventilation or condensation problems or where poor ventilation or the level of condensation are unlikely to increase the rate of deterioration.	° Elements protected from salt spray with cladding or by a protective enclosure. ° Deck soffit and piers of integral bridges where the obstacle crossed is not a road, i.e. elements are not subjected to spray from salted road. ° Tenanted arch bridges ° Half-joints or hinge joints overlaid with functional expansion joints
MODERATE	Structure and/or elements of a structure: ° Moderate (normal) weather conditions, e.g. direct rain, moderate humidity or condensation, some freeze-thaw action etc.; and/or ° Moderate de-icing salt spray and airborne chlorides; e.g. within 3 to 10m of traffic spray on routes with de-icing salts; and/or ° Low to moderate river flow. But elements are not exposed to or buried in aggressive soils	° Top of roadside bridge pier or abutment subject to light vehicle spray from salted road. ° Bridge deck soffit subject to light vehicle spray from salted road.
SEVERE	Structure and/or elements of a structure: ° Continuous or regular severe/extreme weather conditions, e.g. hot and cold extremes, high freeze-thaw action, severe humidity or condensation, etc.; and/or ° Severe de-icing salt spray, e.g. within 3m of traffic spray on routes with de-icing salts; and/or ° Run-off and/or ponding on routes with de-icing salts; and/or ° Aggressive soils, i.e. completely or partially buried in aggressive soils that are contaminated with acidic water or water containing sulfates. ° Marine environment and/or abrasive action of seawater or completely immersed in sea water; and/or ° Corrosive fumes in industrial areas; and/or ° Medium to rapid river flow and flooding.	° Roadside bridge abutment, parapet upstand or deck edge beam subject to heavy vehicle spray from salted road. ° Section of bridge deck near a leaking expansion joint or gutter e.g. deck end or crosshead ° Half-joints or hinge joints overlaid with non-functional expansion joints.

KB Article ID: 80

Life Cycle Planner - Base Unit Rates

The following is a table of Base Unit Rates for the Maintenance Activities included in the Life Cycle Planner

Maintenance Activity	Unit	Maintenance Activity Cost Type	Fixed Rate (£)	Constant Unit Rate (£)	Variable Unit Rate (£)			
					Severity 2	Severity 3	Severity 4	
Anti-carbonation coatings	m^2	Constant		£35				Applies to full eleme
Application of impregnants	m^2	Constant		£40				Applies to full eleme
Bearings: Replacement	m	Constant		£750				
Carriageway Surfacing	m^2	Constant		£40				
Cathodic protection (Installation)	m^2	Variable			£350			Can only be applied
Cathodic protection (Monitoring)	item/year	Fixed	£2,000					Applies where a CP
Cathodic protection (Maintenance)	m^2	Constant		£300				Applied every 25 ye
Concrete repairs	m^2	Variable			£250	£1,000	£1,500	
Corrugated Culvert: Preventative Maintenance	m^2	Variable			£750	£1,500		Can only be applied
Corrugated Culvert: Relining (Strengthening)	m^2	Constant or Variable		£1,000	£1,075	£1,338	£1,863	
Deck strengthening (Concrete)	m^2	Constant or Variable		£700	£750	£925	£1,275	
Deck strengthening (Metal)	m^2	Constant or Variable		£1,000	£1,075	£1,338	£1,863	
Drainage Replacement	m	Constant		£20 - £50				
Element replacement	m^2	Constant		£4,000				
Expansion Joint Replacement: Asphaltic Plug	m	Constant		£187				
Expansion Joint Replacement: Buried Joint	m	Constant		£116				
Expansion Joint Replacement: Cantilever Comb and Tooth Joint	m	Constant		£3,916				
Expansion Joint Replacement: Elastomeric/Reinforced Elastomeric Joint	m	Constant		£902				
Expansion Joint Replacement: Multi Element Elastomeric In Metal Runners	m	Constant		£500				
Expansion joint: Replacement of moving components	item/year	Fixed	£1,500					Applies to 'Multi Elem years
Expansion Joint Replacement: Nosing Joint	m	Constant		£552				
Expansion Joint Replacement: Roller Shutter	m	Constant		£500				
Expansion Joint Replacement: Single Element Elastomeric In Metal Runners	m	Constant		£500				
Expansion Joint Replacement: Sliding Plate	m	Constant		£500				
Footway Surfacing	m^2	Constant		£20 - £150				Unit rate varies acc
Interim Measures: Edge Protection	m	Constant		£950				
Interim Measures: Monitoring	item/year	Fixed	£2,500					
Interim Measures: Propping	m^2	Constant		£500				Applies to the full de
Invert Repair	m^2	Constant		£35				
Masonry repairs	m^2	Variable			£300	£1,200	£1,800	
Masonry strengthening measures	m^2	Constant or Variable		£850	£890	£1,030	£1,310	
Metalwork repair	m^2	Variable			£0	£1,500	£2,250	
Paint: Application of paint system	m^2	Constant		£30				Applies to full eleme
Paint: Re-application on top of existing paint system	m^2	Constant		£60				Applies to full eleme
Paint: Wet/Dry surface preparation and re-application of paint system	m^2	Constant		£120				Applies to full elemen
Parapet: Protection System Installation/Replacement	m	Constant		£950				
Parapet: Replacement	m	Constant		£426				
Parapet wall expansion joint (sealant)	m	Constant		£10				
Pier Strengthening	m^2	Variable			£1,250	£1,425	£1,775	
Scour monitoring	item/year	Fixed	£750					Applies to scour sus
Scour or scour hole repair	item/bridge	Fixed	£25,000					Applied at a specific
Scour protection measures	item/bridge	Fixed	£10,000					Applied at a specific
TSA protection measures	m^2	Constant		£50				Applies to full eleme
Void Grouting	m^2	Variable			£100	£200	£300	
Waterproofing: Application only	m^2	Constant		£150 - £200				Applies to full eleme
								Includes removal of e

Waterproofing: Replacement	m^2	Constant		£325				(including up-to 5% new waterproofing s reinstatement and re and traffic signs and

KB Article ID: 81

Life Cycle Planner - Engineering Difficulty Uplift Factors

The engineering difficulty of the works can influence cost in a number of ways. The base cost applies to works on structures on a clear site or disused land in an url

A set of 'Engineering Difficulty' criteria, which are applicable at the activity level, is listed below along with the default uplift factor that has been assigned to each cr

Engineering Difficulty of Activities	Default Uplift Factor
Over Water - navigable	1.5
Over Water - non-navigable	1.0
Over Water - tidal	1.2
Over Water - non-tidal	1.0
Railway - electrified	3.0
Railway - non-electrified	2.0
Accommodating STATS - water	1.2
Accommodating STATS - gas	1.5
Accommodating STATS - electric	1.5
Accommodating STATS - communication cables	1.3
Accommodating STATS - other	1.1
Over Motorway or A Road	1.3
Over B, C or Unclassified Road	1.3
At height - between 2 and 5m	1.2
At height - between 5 and 8m	1.3
At height - above 8m	1.5
Confined space	3.0
Railway	2.0
Diversion of utility services (STATS)	1.5
Ground conditions	1.5
COSHH	1.5
Other Difficulty	1.5

KB Article ID: 82

Life Cycle Planner - Work Patterns and Uplift Factors

A set of work patterns is provided below, along with a brief description, effective working time and default uplift factor

Work Pattern	Description	Hours Worked	Uplift Factor
Daytime	Monday to Friday 06.00 to 19.00	8	1.00
Night-time	Monday 00.01 to 06.00 Monday to Thursday 19.00 to 06.00 Friday 19.00 to 00.00	8	1.50
Restricted daytime	Monday to Saturday 10.00 to 15.00	5	1.30
Weekend/Public Holiday (8hr)	Saturday, Sunday and Public Holidays – only one 8hr shift per day	8	2.00
Weekend/Public Holiday (24hr)	Saturday, Sunday and Public Holidays – with consecutive 8hr shifts	24	2.00
Weekday (24hr)	Weekday with consecutive 8hr shifts	24	1.25

KB Article ID: 83

Life Cycle Planner - Traffic Management Arrangements and Rates

A set of Traffic Management Arrangements and Rates are provided below

TM Arrangement Type	TM Rate (£/day)
Single way working (uncontrolled)	£600
Single way working (controlled) - shuttle working	£1200
Convey working	£2000
Lane closure (one lane)	£1800
Lane closure (two lanes)	£3600
Lane closure (three lanes)	£5400
Contra-flow	£3000
Hard-shoulder closure	£800
Pedestrian Traffic Management	£500
Road closure (full) with diversion	£5500
Carriageway closure (no pedestrian diversion)	£5500
Speed restrictions	£500
Re-phasing traffic signals	£800
Parking restrictions	£600
Railway Possession	£8000

KB Article ID: 84

Life Cycle Planner - Engineering Difficulty of Scheme

The engineering difficulty of the works can influence cost in a number of ways. The base cost applies to works on structures on a clear site or disused land in a

A set of 'Engineering Difficulty' criteria, which are applicable at the scheme level, is listed below along with the default uplift factor that has been assigned to ea

Engineering Difficulty of Scheme	Default uplift factor
Remoteness of site from access location	1.2
Site security (or lack of)	1.8
Rural	1.2
Private Land (wayleaves/easements)	1.5
Listed	2.0
Other	1.3

KB Article ID: 85

Life Cycle Planner - Cost Calculations for Scheme Preliminaries

Preliminaries are considered to cover the following:

- Site set up / take down;
- Site facilities (stores, offices, servicing etc.);
- Temporary works;
- Contractor's overheads (site overheads and percentage of head office, staff training, back office staff salaries);
- Contractor margin;
- Contractor's site vehicles;
- Travel expenses;
- Bonus payments;
- Site information boards;
- Progress photos;
- Scheme registration (considerate contractors);
- Landfill costs / skip licences;
- Licences.

Preliminaries do not include site clearance or work associated with contaminated land, both of which are covered under Other Costs instead. By default Prelimin percentage of Works + TM + Scheme's Engineering Diffuclty costs.

Works+TM+Scheme Engg Diff Cost	Additional Cost for Preliminaries
<£50,000	20%
<£250,000	15%
<£1,000,000	12.5%
£1,000,000 +	10%

KB Article ID: 86

Life Cycle Planner - Design Cost Calculation

The design cost generally includes the costs for the following:

- Outline design;
- Site investigation/testing (5% of contract value);
- Detailed design;
- Contract documentation and procurement.

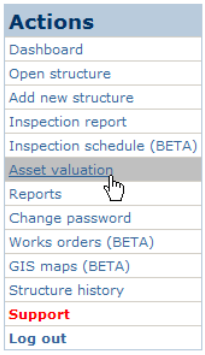
By default, the design cost is calculated as a percentage of the full scheme cost.

Full Scheme Cost	Additional Cost for Design
<£50,000	40%
<£250,000	20%
<£1,000,000	15%
£1,000,000 +	12%

KB Article ID: 54

Asset Valuation

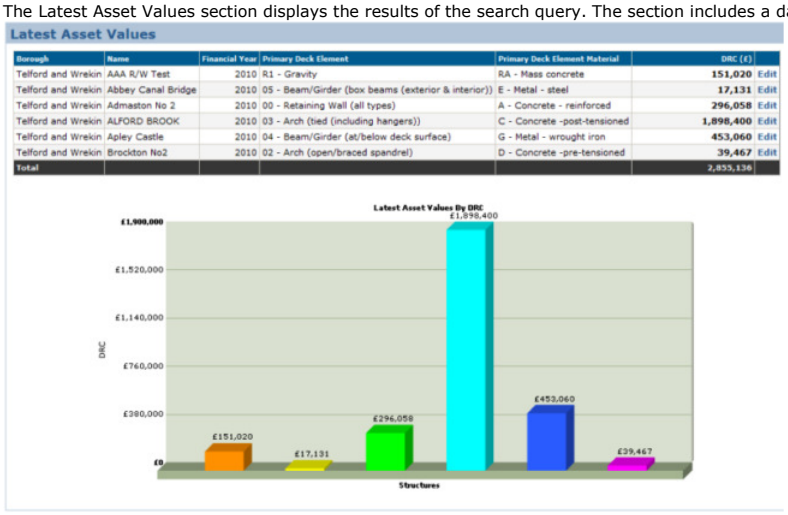
To begin entering an asset valuation click on the Asset Valuations link on the left-hand actions menu



This sends you to the Asset Valuation summary page. Here you can view the lastest asset valuations carried out on structures in your borough.

You can use the Summary Search section to filter the Latest Asset Values results. Use the drop-downs and click **Search** to narrow the results, or click **Show Al**

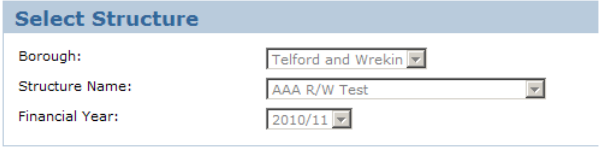
The Latest Asset Values section displays the results of the search query. The section includes a data grid and an associated graph of the Depreciated Replaceme


Latest Asset Values
Borough | Name | Financial Year | Primary Deck Element | Primary Deck Element Material | DRC (£)
Telford and Wrekin | AAA R/W Test | 2010 | R1 - Gravity | RA - Mass concrete | 151,020 | Edit
Telford and Wrekin | Abbey Canal Bridge | 2010 | 05 - Beam/Girder (box beams (exterior & interior)) | E - Metal - steel | 17,131 | Edit
Telford and Wrekin | Admaston No 2 | 2010 | 00 - Retaining Wall (all types) | A - Concrete - reinforced | 296,058 | Edit
Telford and Wrekin | ALFORD BROOK | 2010 | 03 - Arch (tied (including hangers)) | C - Concrete -post-tensioned | 1,898,400 | Edit
Telford and Wrekin | Apley Castle | 2010 | 04 - Beam/Girder (at/below deck surface) | G - Metal - wrought iron | 453,060 | Edit
Telford and Wrekin | Brockton No2 | 2010 | 02 - Arch (open/braced spandrel) | D - Concrete -pre-tensioned | 39,467 | Edit
Total | | | | | 2,855,136
Latest Asset Values By DRC
£1,900,000
£1,520,000
£1,140,000
£760,000
£380,000
£0
DRC
£1,898,400
£453,060
£296,058
£151,020
£17,131
£39,467
Structures

To modify one of the existing latest asset values click the **Edit** link to the right of the required row in the grid. If you need to create a brand new valuation you **Valuation** link just below the Summary Search section.

This will open the asset valuation page.
To view the technical notes for making asset valuation click the **open guidelines in a new window** link at the top of the page.
To view an example spreadsheet of an asset valuation click on the **an example is available for viewing here** link.

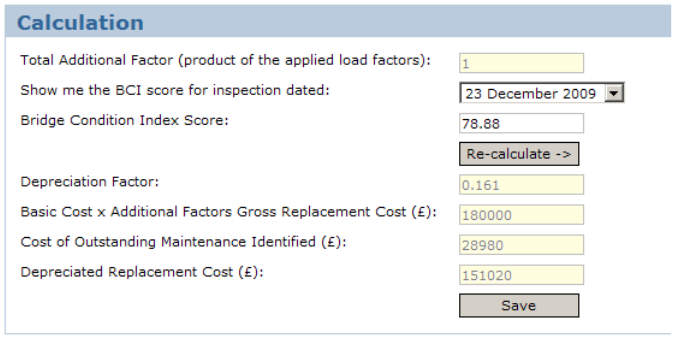
To use the online form begin by selecting the relevant structure and the financial year you wish the valuation to apply to. If you are editing an existing valuatio shown below.



Next complete the General Information section making use of the input boxes, drop-downs and check boxes to complete the required information and obtain ca **Cost and Basic Cost GRC.**

The next section provides a way to define additonal factors that may affect the unit cost.
Make use of the check boxes to select factors relevant to the structure being valued. You can use the **Check All** button to tick all of the boxes at once, and the

The final section provides the results to the asset valuation. You can use the drop down to specify an inspection date of a CSS inspection already entered into B Bridge Condition Index Score for you. Alternatively you can complete the score manually and click the **Re-calculate** button to get a valuation for the structure.



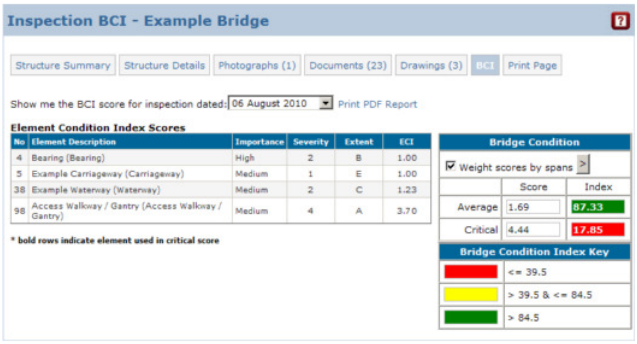
To save your asset valuation against the structure's details click the **Save** button.

KB Article ID: 11

BCI score and index

The inspections drive the BCI Score.

Click on the **BCI tab** on the top of the CSS inspection page to get a breakdown of the BCI scores.



If there is more than one inspection click on the drop down list to get the BCI result for a particular inspection date.
If an element is shown in bold it means its condition scores are used in the calculation of the Critical BCI and BCS.
The Bridge Condition Index Values have been colour-coded according to the key shown.

KB Article ID: 15

Inspection Scheduler

The Inspection Scheduler can be accessed by clicking the Inspection Schedule link on the Main page.

On the Inspection Schedule page you can change the Regime Type, to display the various types of Inspections.

The first page of the Inspection Scheduler displays the number of inspections per year. It includes the previous 6 years, current year and future 5 years figures.

It also displays the total value of the inspections per year – in the dark grey Total Value column.

By clicking on one of the numbers in the relevant years columns, you are taken to a detail page where the breakdown for that year is displayed.

The breakdown shows the value of inspections per month for the year selected.

For example, if you click a figure in the 02/03 year column on the first page, the details for the funding year 2002 are displayed on the second page.

Here actual inspections are depicted in bold, whereas future inspections are in regular text.

By clicking on the value in the columns you can view and edit a particular inspections detail.

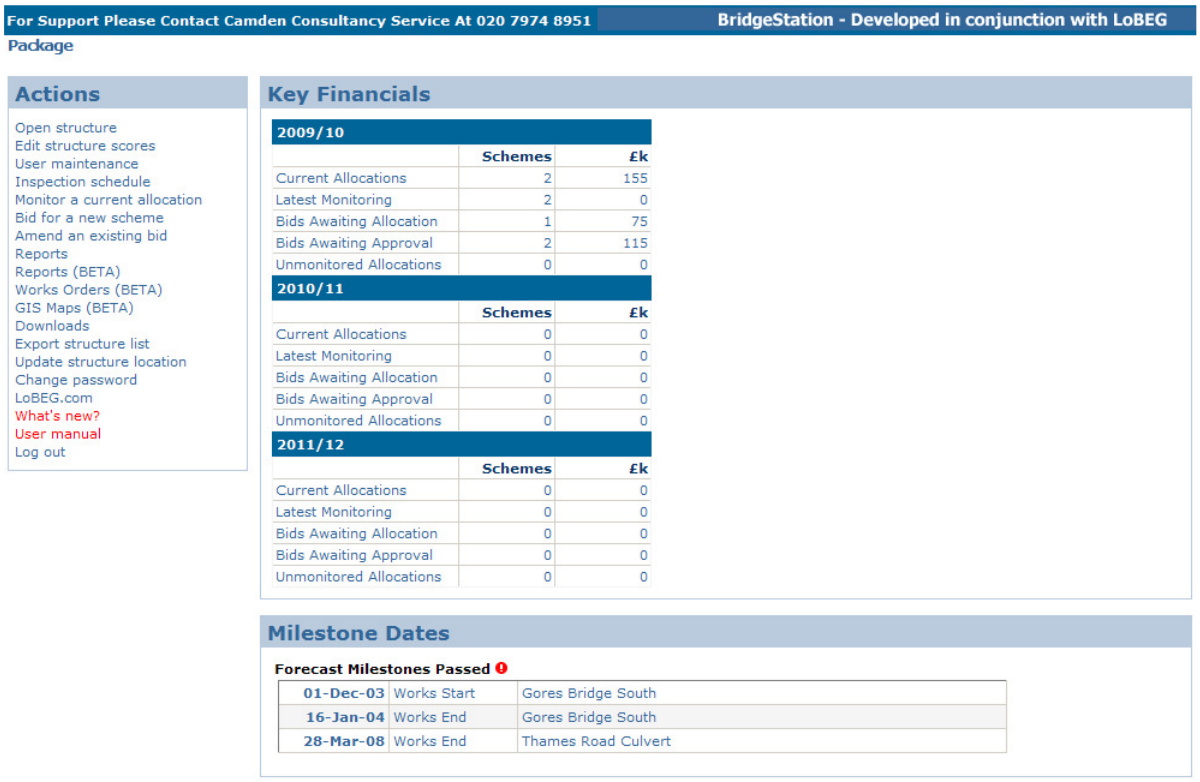
By clicking on a structures name you are redirected and taken to that structure details.

KB Article ID: 23

Main Page

After you have signed in you are initially presented with details of your Key Financials for the next three financial years.
These include summaries of your bids, monitoring, allocations and unmonitored allocations.

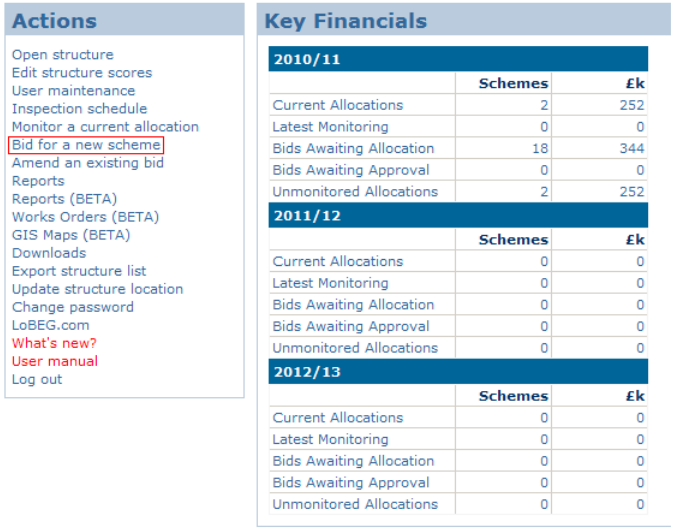
Forecast Milestones Passed and Upcoming Milestones are also visible.



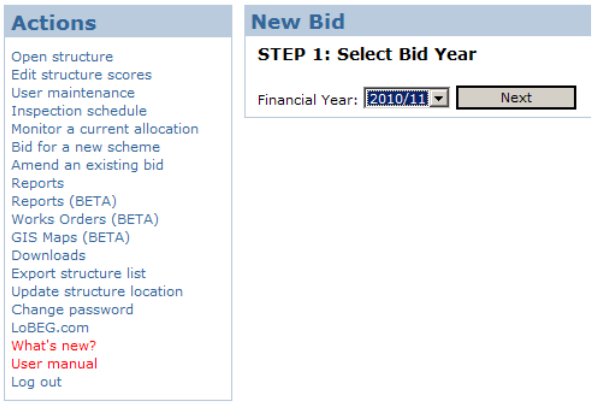
KB Article ID: 41

Bid for a New Scheme

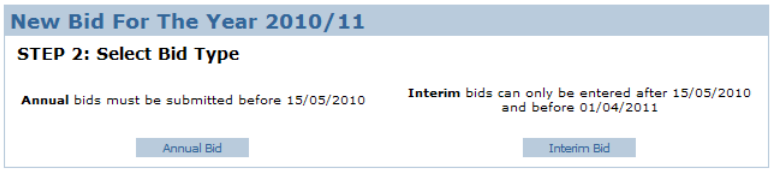
To start bidding for a new scheme from the Key Financials page select the **Bid for a new scheme** link from the left-hand **Actions** menu



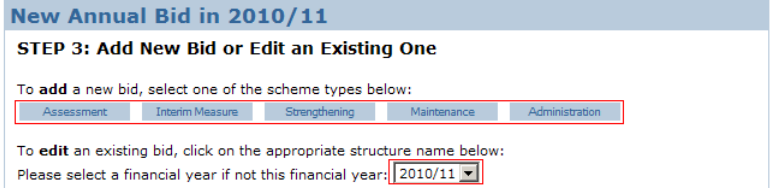
Select the bid type, which can be either an Annual Bid or an Interim Bid. Please note Annual Bids must be placed before the 15 May for the respective year.



Now choose a Bid Type. The conditions of when during the financial year a certain bid type can be used are described below.

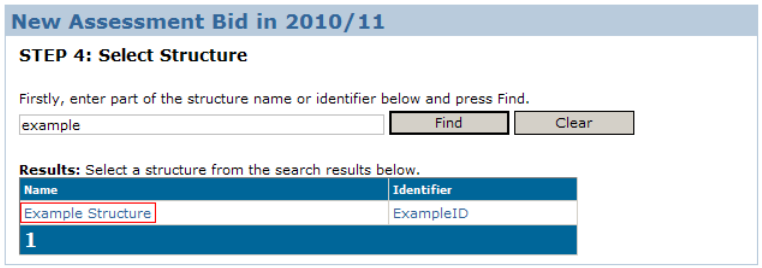

New Bid For The Year 2010/11
STEP 2: Select Bid Type
Annual bids must be submitted before 15/05/2010
Interim bids can only be entered after 15/05/2010 and before 01/04/2011
Annual Bid
Interim Bid

Select the scheme type, or click on an existing bid if you wish to edit it.


New Annual Bid in 2010/11
STEP 3: Add New Bid or Edit an Existing One
To add a new bid, select one of the scheme types below:
Assessment
Interim Measure
Strengthening
Maintenance
Administration
To edit an existing bid, click on the appropriate structure name below:
Please select a financial year if not this financial year: 2010/11

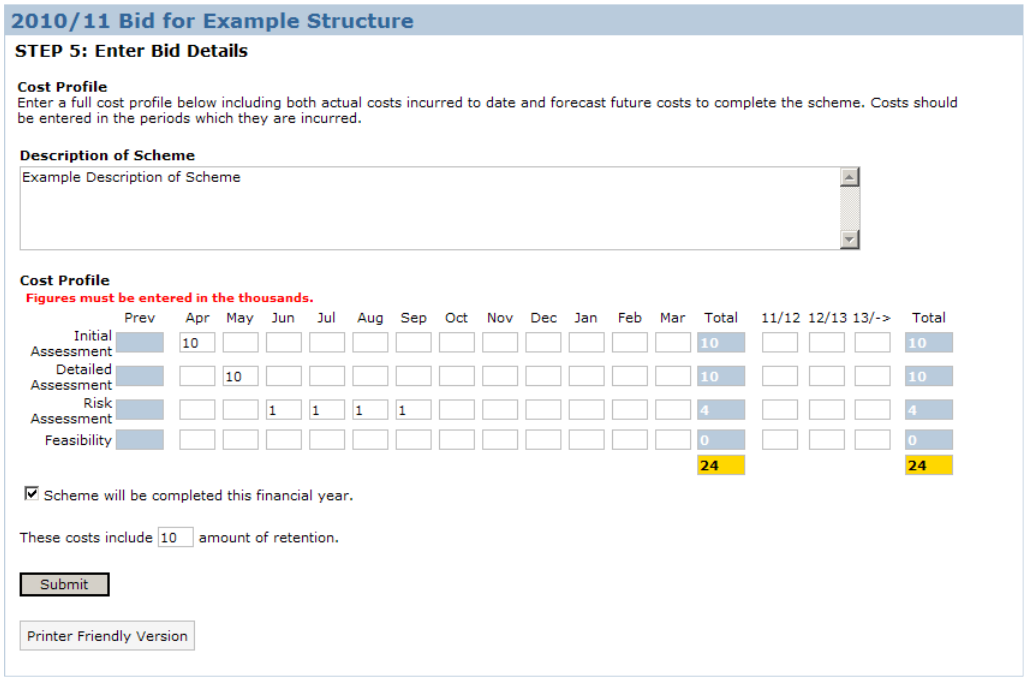
To locate a structure enter part of its name or identifier in the search criteria and then hit the **Find** button (or simply press Enter). For example, if you are looking for Bonesgate Stream Access Bridge. search criteria field and hit enter. The list will then display only those structures containing the characters you have entered.

Select the relevant structure from the list by clicking on the structure's name.



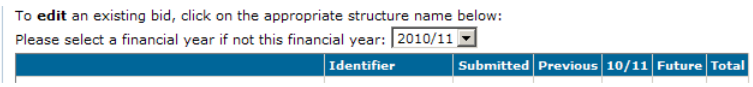
Should the OS Easting or OS Northing grid references for the selected structure be incomplete, you will be prompted to complete them before amending the bid.

Enter the bid data in the grid provided. Include future year's figures or select the check box for **Scheme will be completed this financial year**.
Click the **Submit** button to enter the bid.


2010/11 Bid for Example Structure
STEP 5: Enter Bid Details
Cost Profile
Enter a full cost profile below including both actual costs incurred to date and forecast future costs to complete the scheme. Costs should be entered in the periods which they are incurred.
Description of Scheme
Example Description of Scheme
Cost Profile
Figures must be entered in the thousands.
Prev Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Total 11/12 12/13 13/-> Total
Initial Assessment 10 10 10
Detailed Assessment 10 10 10
Risk Assessment 1 1 1 1 4 4
Feasibility 0 0
24 24
Scheme will be completed this financial year.
These costs include 10 amount of retention.
Submit
Printer Friendly Version

When entering bid details for a strengthing scheme type addition Milestone dates will have to be completed before submitting the bid. Once the bid has been submitted, and **only if it is a Strengther approved by the sector leader**, before it can have an allocation made to it, or have monitoring done on it.

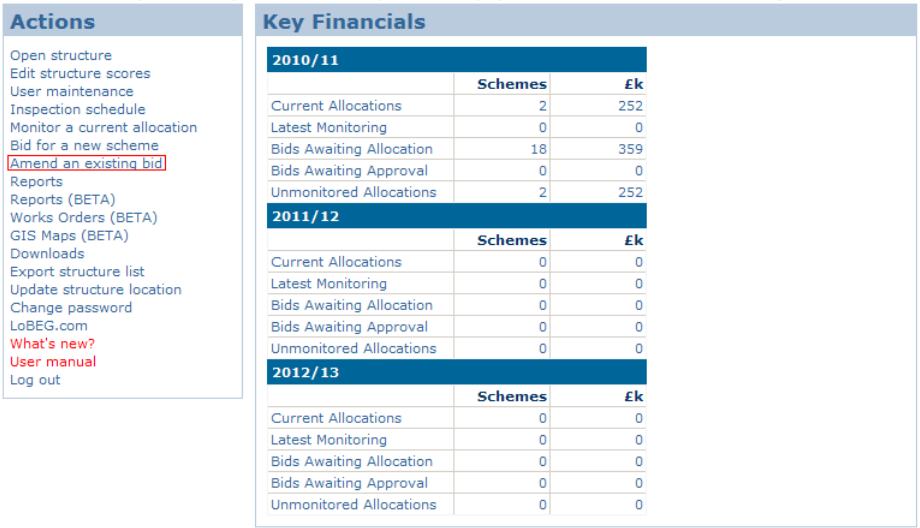
The bid will now be entered into the database and a list of existing bids for that borough will be displayed. If you need to edit a bid you have just made, just click on the relevant structure name in the



KB Article ID: 42

Amend an Existing Bid

To start amending an existing bid, from the Key Financials page click on the **Amend an existing bid** link on the left-hand **Actions** menu.



Actions

Open structure
Edit structure scores
User maintenance
Inspection schedule
Monitor a current allocation
Bid for a new scheme
Amend an existing bid
Reports
Reports (BETA)
Works Orders (BETA)
GIS Maps (BETA)
Downloads
Export structure list
Update structure location
Change password
LoBEG.com
What's new?
User manual
Log out

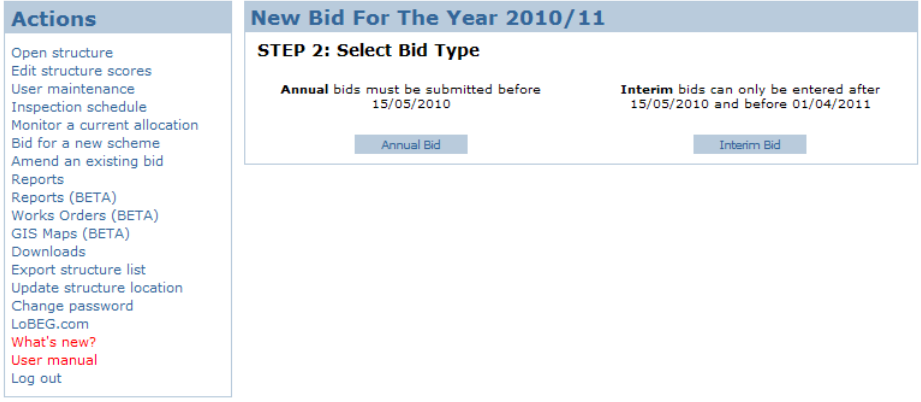
Key Financials

2010/11	Schemes	£k
Current Allocations	2	252
Latest Monitoring	0	0
Bids Awaiting Allocation	18	359
Bids Awaiting Approval	0	0
Unmonitored Allocations	2	252

2011/12	Schemes	£k
Current Allocations	0	0
Latest Monitoring	0	0
Bids Awaiting Allocation	0	0
Bids Awaiting Approval	0	0
Unmonitored Allocations	0	0

2012/13	Schemes	£k
Current Allocations	0	0
Latest Monitoring	0	0
Bids Awaiting Allocation	0	0
Bids Awaiting Approval	0	0
Unmonitored Allocations	0	0

Next select a bid type according to the instructions below.



Actions

Open structure
Edit structure scores
User maintenance
Inspection schedule
Monitor a current allocation
Bid for a new scheme
Amend an existing bid
Reports
Reports (BETA)
Works Orders (BETA)
GIS Maps (BETA)
Downloads
Export structure list
Update structure location
Change password
LoBEG.com
What's new?
User manual
Log out

New Bid For The Year 2010/11

STEP 2: Select Bid Type

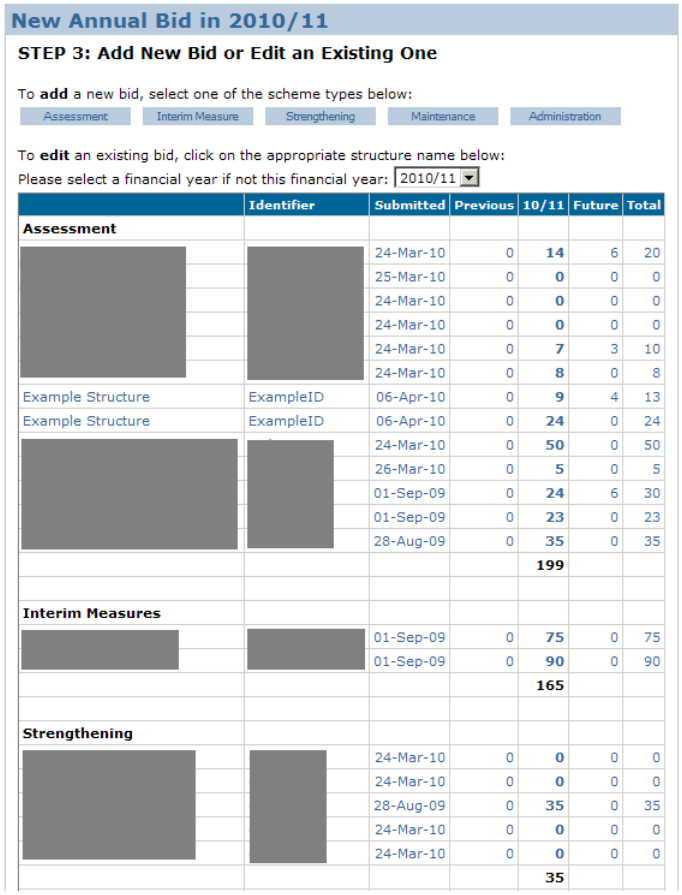
Annual bids must be submitted before 15/05/2010

Annual Bid

Interim bids can only be entered after 15/05/2010 and before 01/04/2011

Interim Bid

You will then be presented with a list of bids for the borough. Click on the structure name to start editing the bid.



New Annual Bid in 2010/11

STEP 3: Add New Bid or Edit an Existing One

To **add** a new bid, select one of the scheme types below:

Assessment | Interim Measure | Strengthening | Maintenance | Administration

To **edit** an existing bid, click on the appropriate structure name below:

Please select a financial year if not this financial year: 2010/11

	Identifier	Submitted	Previous	10/11	Future	Total
Assessment						
[redacted]	[redacted]	24-Mar-10	0	**14**	6	20
		25-Mar-10	0	**0**	0	0
		24-Mar-10	0	**0**	0	0
		24-Mar-10	0	**0**	0	0
		24-Mar-10	0	**7**	3	10
		24-Mar-10	0	**8**	0	8
Example Structure	ExampleID	06-Apr-10	0	**9**	4	13
Example Structure	ExampleID	06-Apr-10	0	**24**	0	24
[redacted]	[redacted]	24-Mar-10	0	**50**	0	50
		26-Mar-10	0	**5**	0	5
		01-Sep-09	0	**24**	6	30
		01-Sep-09	0	**23**	0	23
		28-Aug-09	0	**35**	0	35
				199		
Interim Measures						
[redacted]	[redacted]	01-Sep-09	0	**75**	0	75
		01-Sep-09	0	**90**	0	90
				165		
Strengthening						
[redacted]	[redacted]	24-Mar-10	0	**0**	0	0
		24-Mar-10	0	**0**	0	0
		28-Aug-09	0	**35**	0	35
		24-Mar-10	0	**0**	0	0
		24-Mar-10	0	**0**	0	0
				35		

Should the OS Easting or OS Northing grid references for the selected structure be incomplete, you will be prompted to complete them before amending the bid.

Enter the bid data in the grid provided. Include future year's figures or select the check box for

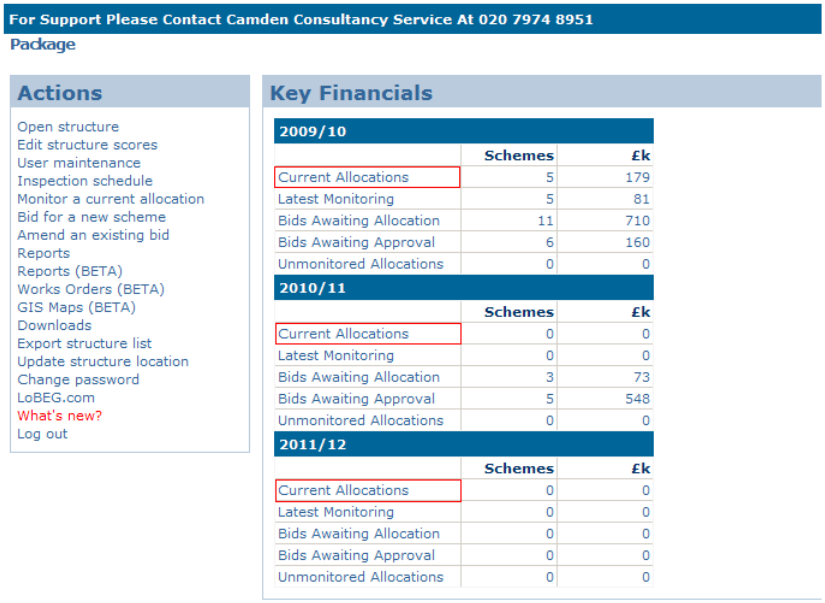
Scheme will be completed this financial year.

Click the **Submit** button to amend the bid.

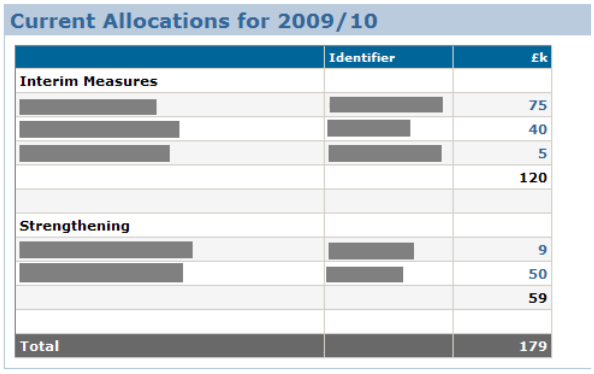
KB Article ID: 24

Current Allocations

To view details of the Current Allocations, whilst on the Main page click on the Current Allocations link for the particular financial year you are interested in.



The Current Allocations page will open and display a breakdown of the allocations for the specified year, grouped by scheme type (i.e. assessment, interim mea maintenance).

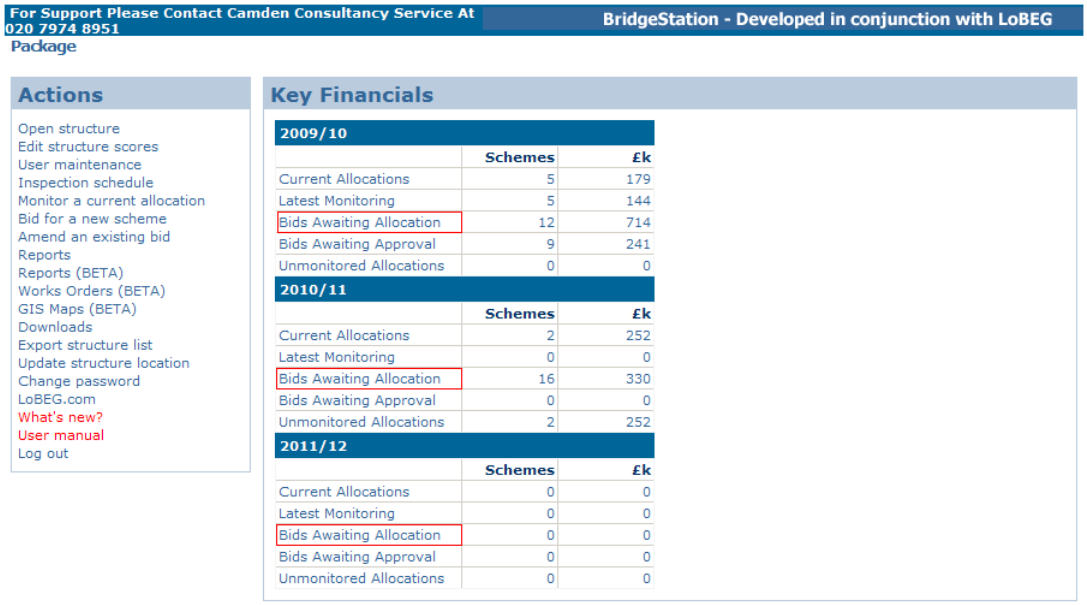


Clicking on the structure name for one of these allocations will take you to the breakdown for that specific allocation.

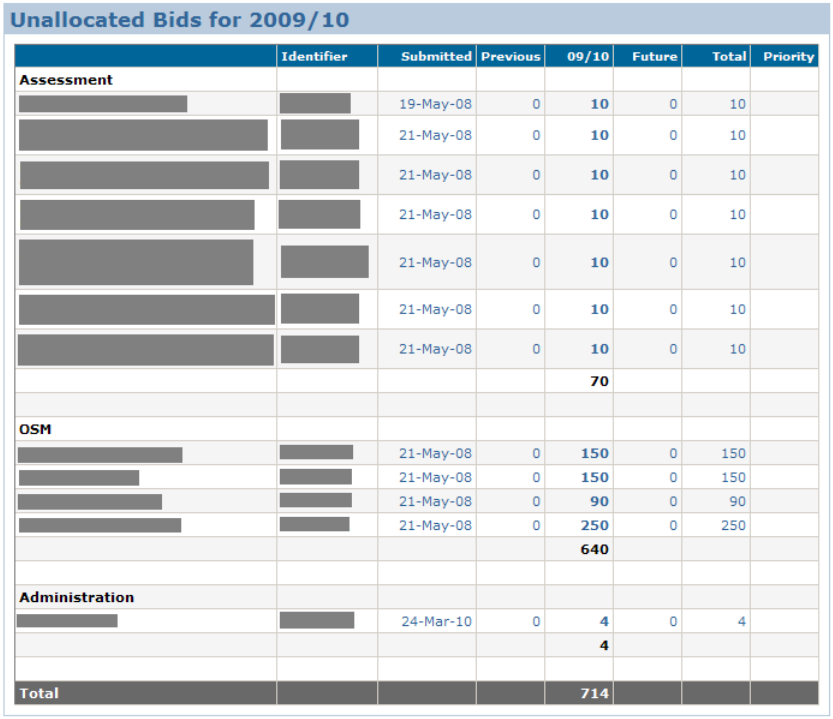
KB Article ID: 26

Bids Awaiting Allocations

To view details of the Bids Awaiting Allocations, click on the Bids Awaiting Allocations link.



The Bids Awaiting Allocations page will open and display a breakdown of the unallocated bids for the specified year, grouped by scheme type (i.e. assessment, i maintenance).

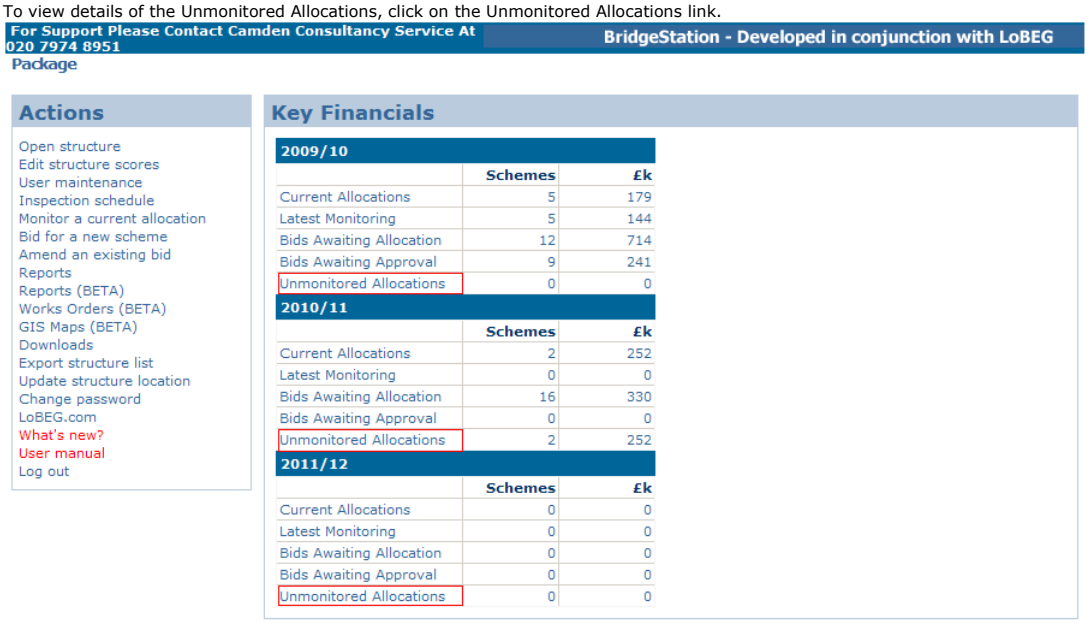


Clicking on the structure name for one of these bids will take you to the breakdown for that specific bid.

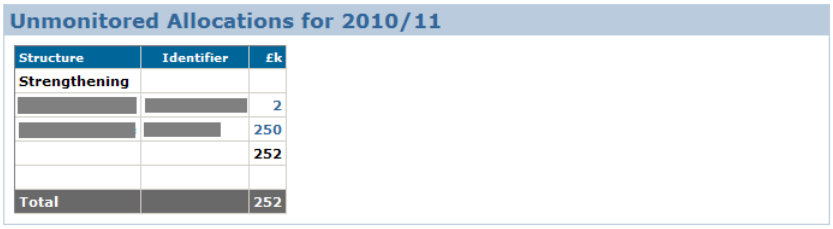
KB Article ID: 27

Unmonitored Allocations

To view details of the Unmonitored Allocations, click on the Unmonitored Allocations link.



The Unmonitored Allocations page will open and display a breakdown of the unmonitored allocations for the specified year, grouped by scheme type (i.e. assess and maintenance).



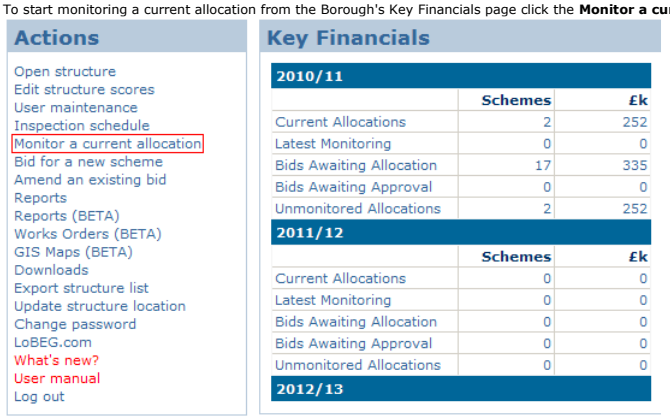
Clicking on the structure name for one of these allocations will take you to the breakdown for that specific allocation.

From the Actions panel on the left you can enter monitoring for this allocation by clicking on the Monitor a current allocation link.

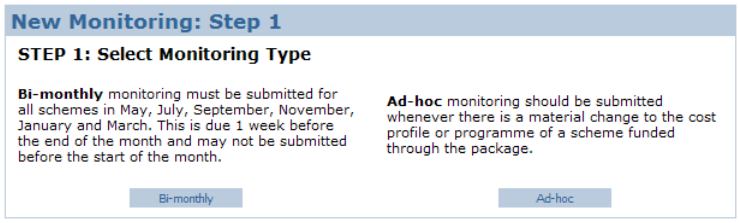
KB Article ID: 40

Monitor a Current Allocation

To start monitoring a current allocation from the Borough's Key Financials page click the **Monitor a current allocation** link in the left hand Actions menu.



Choose the type of monitoring you want to enter (i.e. Bi-monthly or Ad-Hoc). Please note Bi-Monthly can only be entered in May, July, September, October, December and February.


New Monitoring: Step 1
STEP 1: Select Monitoring Type
Bi-monthly monitoring must be submitted for all schemes in May, July, September, November, January and March. This is due 1 week before the end of the month and may not be submitted before the start of the month.
Ad-hoc monitoring should be submitted whenever there is a material change to the cost profile or programme of a scheme funded through the package.
Bi-monthly
Ad-hoc

Click on the structure's name that you wish to monitor.

To view the previous years monitoring click the **closeout results** link.

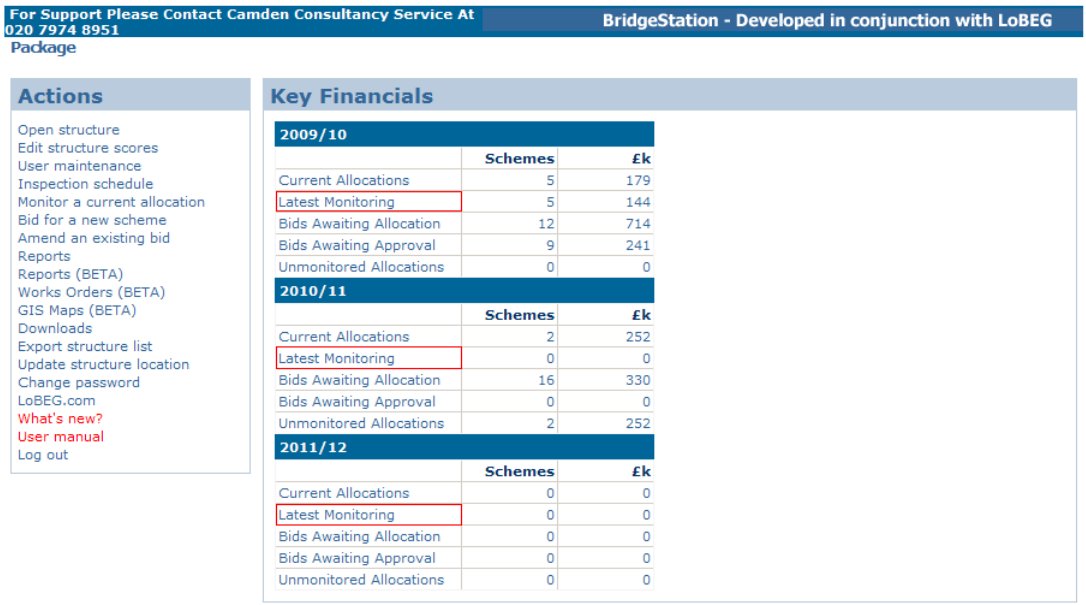
Enter the monitoring data in the grid provided. Include future year's figures or select the check box for **Scheme will be completed this financial year**. Also include a retention amount and a reason have changed.

The previous monitoring is also displayed if available.
Click the **Submit** button to enter the monitoring.

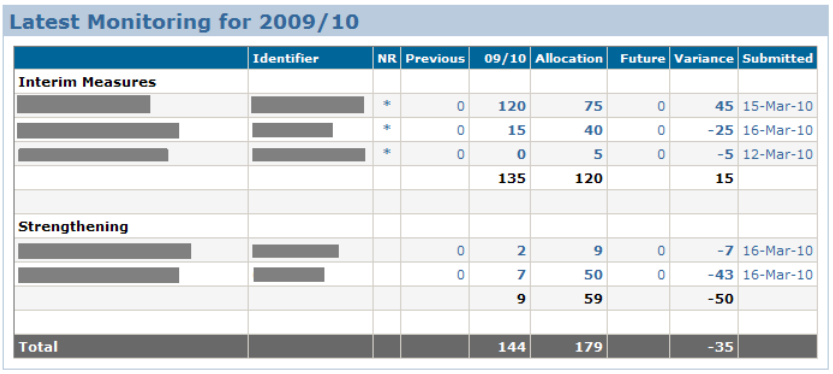
KB Article ID: 25

Latest Monitoring

To view details of the Latest Monitoring, click on the Latest Monitoring link.



The Latest Monitoring page will open and display a breakdown of the monitoring for the specified year, grouped by scheme type (i.e. assessment, interim meas

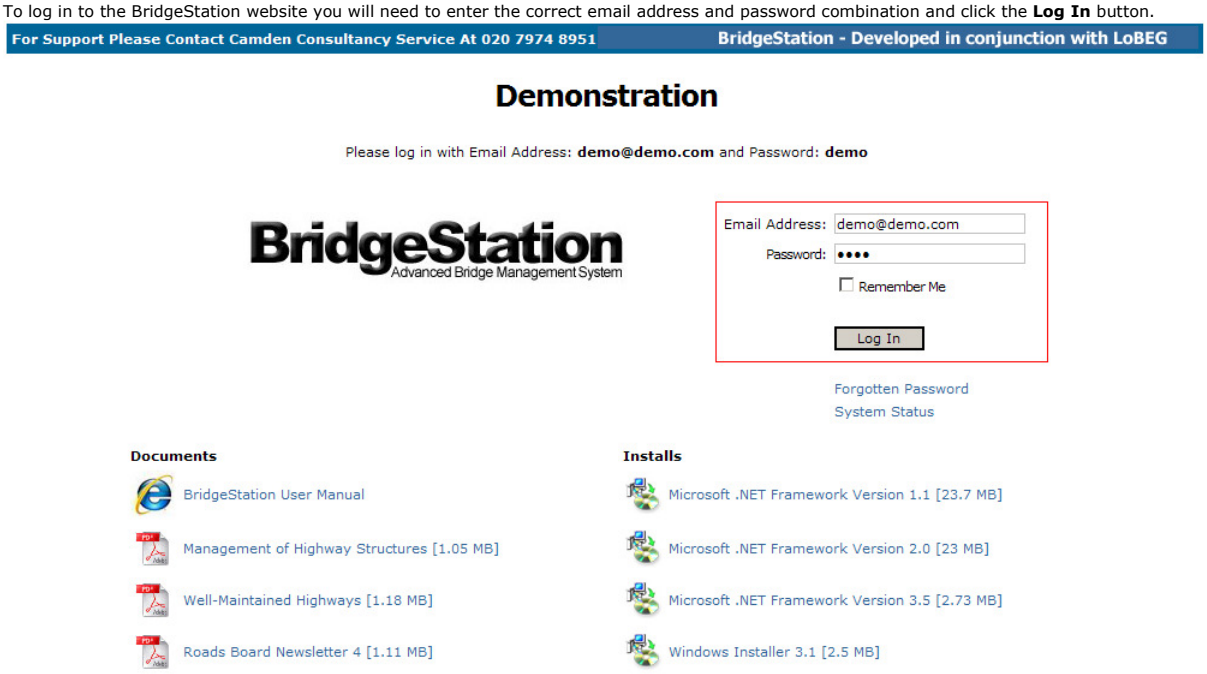

Latest Monitoring for 2009/10
Identifier NR Previous 09/10 Allocation Future Variance Submitted
Interim Measures
* 0 120 75 0 45 15-Mar-10
* 0 15 40 0 -25 16-Mar-10
* 0 0 5 0 -5 12-Mar-10
135 120 15
Strengthening
0 2 9 0 -7 16-Mar-10
0 7 50 0 -43 16-Mar-10
9 59 -50
Total 144 179 -35

Clicking on the structure name for one of these monitoring will take you to the breakdown for that specific monitoring.

KB Article ID: 28

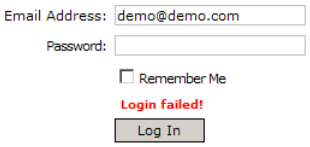
Logging In

To log in to the BridgeStation website you will need to enter the correct email address and password combination and click the **Log In** button.


For Support Please Contact Camden Consultancy Service At 020 7974 8951
BridgeStation - Developed in conjunction with LoBEG
Demonstration
Please log in with Email Address: demo@demo.com and Password: demo
BridgeStation
Advanced Bridge Management System
Email Address: demo@demo.com
Password:
Remember Me
Log In
Forgotten Password
System Status
Documents
BridgeStation User Manual
Management of Highway Structures [1.05 MB]
Well-Maintained Highways [1.18 MB]
Roads Board Newsletter 4 [1.11 MB]
Installs
Microsoft .NET Framework Version 1.1 [23.7 MB]
Microsoft .NET Framework Version 2.0 [23 MB]
Microsoft .NET Framework Version 3.5 [2.73 MB]
Windows Installer 3.1 [2.5 MB]

If you enter the correct combination you will be redirected to the secure website.
Check the Remember Me box if you want your login details to be stored for the next time you access the site.

If you enter the incorrect combination you will be alerted to the fact by the **Login failed!** message.



KB Article ID: 29

Logging Out

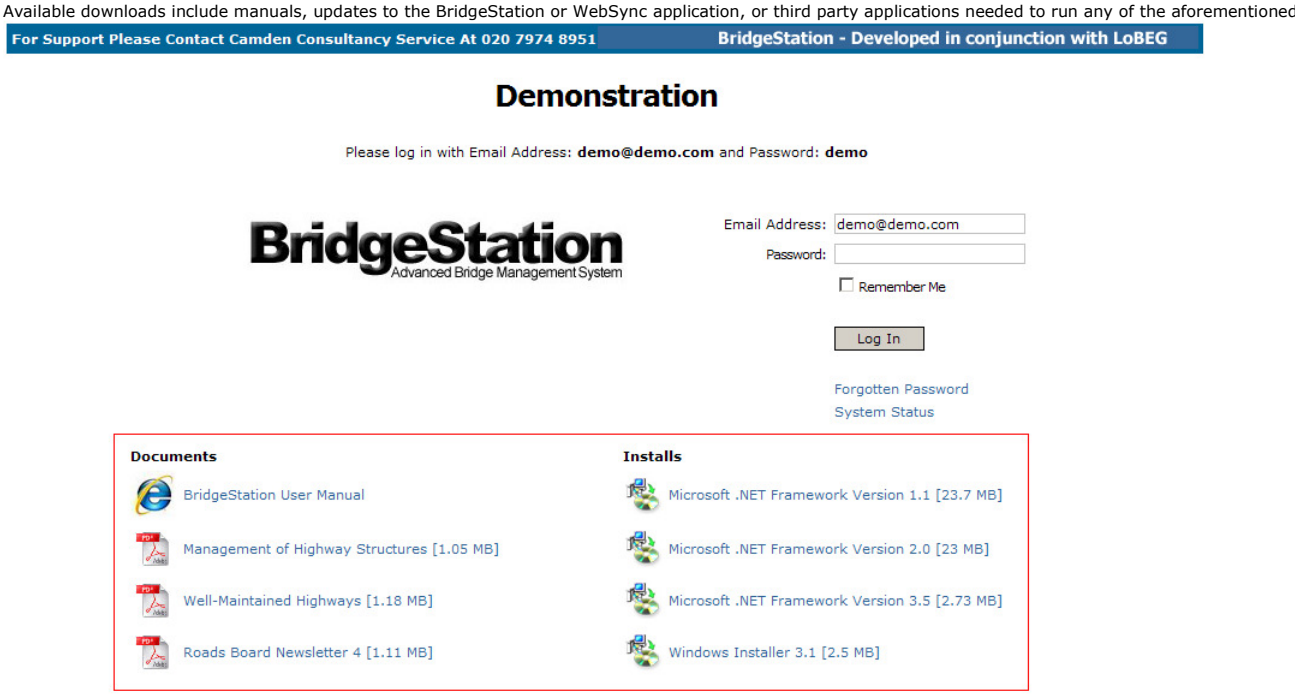
Click on the Log out link at the bottom of the Actions panel to Logout from the website.

KB Article ID: 30

Downloads

Downloads can be accessed from the BridgeStation login page.

Available downloads include manuals, updates to the BridgeStation or WebSync application, or third party applications needed to run any of the aforementioned


For Support Please Contact Camden Consultancy Service At 020 7974 8951
BridgeStation - Developed in conjunction with LoBEG
Demonstration
Please log in with Email Address: demo@demo.com and Password: demo
BridgeStation
Advanced Bridge Management System
Email Address: demo@demo.com
Password:
Remember Me
Log In
Forgotten Password
System Status
Documents
BridgeStation User Manual
Management of Highway Structures [1.05 MB]
Well-Maintained Highways [1.18 MB]
Roads Board Newsletter 4 [1.11 MB]
Installs
Microsoft .NET Framework Version 1.1 [23.7 MB]
Microsoft .NET Framework Version 2.0 [23 MB]
Microsoft .NET Framework Version 3.5 [2.73 MB]
Windows Installer 3.1 [2.5 MB]

KB Article ID: 31

User Maintenance

The User Maintenance section can be accessed from the Actions menu on the left.

User Maintenance allows you to change your password and also to Create new users.

When creating new users they are allocated one of 4 security levels:

1. Able to view structures in their own borough, unable to add or edit any data.

2. Able to view and edit data for their own borough

3. Able to view structures from any borough, unable to add or edit any data.

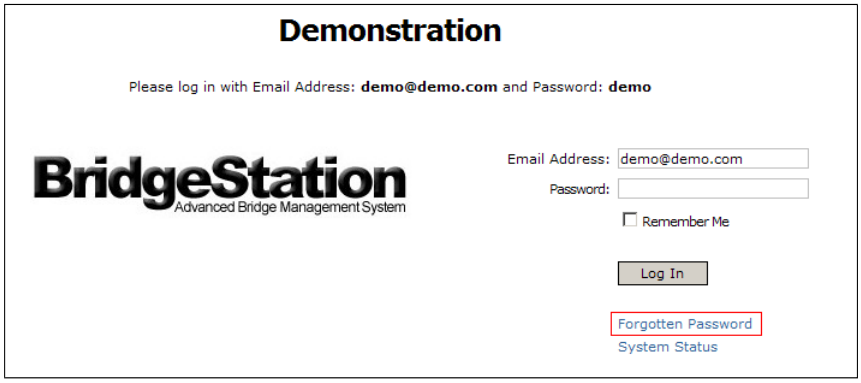
4. Able to view, edit or add data to any structure in any borough.

By default, each borough is assigned one user with level 2 access. Sector leaders, package administrators and TfL will have level 3 or 4 access. Any user is able lower level than themselves. This can be achieved by selecting User Maintenance from the Actions panel and then Create User.

KB Article ID: 47

Forgotten Password

If you have forgotten your password, click on the **Forgotten Password** link below the login button.



You then have the chance to enter your full name and email address.

For Support Please Contact Camden Consultancy Service At 020 7974 8951
BridgeStation - Developed in conjunction with LoBEG
Forgotten Password
Full Name:
Email Address:
Email Password

If the full name and email address is recognised by the system, a new password will be generated and sent to the email address provided.

Please allow for a few minutes for the email to arrive and follow the directions on the email to login to the BridgeStation website.

KB Article ID: 87

BridgeStation System Requirements

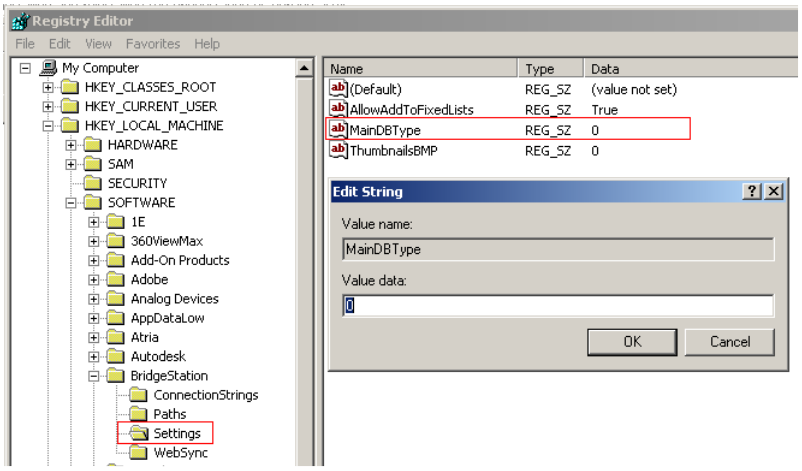
BridgeStation : Advanced Bridge Management System Minimum System Requirements	
Browser	Microsoft Internet Explorer 7 and 8 (Java Script enabled)
Operating System	■ Windows 2000 ■ Microsoft Windows XP Professional and Home Version ■ Microsoft Windows Vista ■ Microsoft Windows 7
Network connection	Internet connection – minimum 2 Mbps connection speed
Processor specification	800 MHZ, Intel Pentium III (P4 or better recommended)
System Memory	128MB RAM (512MB recommended)
Display	Super VGA (1024x768 resolution) or higher with colour quality of at least 256 colours
Microsoft Office Integration	Microsoft Word/Excel 2003 or 2007
Document viewer integration	Adobe Reader 8 or higher
Other requirements	Adobe Flash Player 10 or higher Microsoft Silverlight 4

KB Article ID: 70

Installing and Reinstalling the BridgeStation PC version

You will need administrative rights to your PC in order to install BridgeStation PC version.

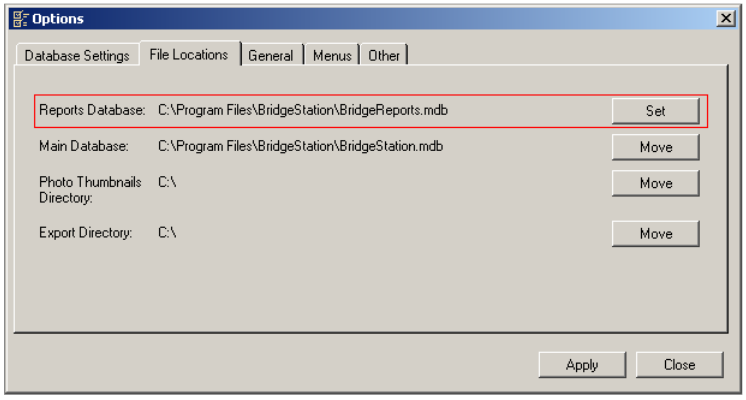
Installing BridgeStation PC version for the first time:
1. First run the client installation located at: http://www.lobeg.co.uk/downloads/ClientSetup.exe
2. Then run the update file: http://www.lobeg.co.uk/downloads/bs_upg227.EXE
3. Complete the installation by carrying out the following registry edit: Click Windows Start > Run > then type in the Open box "regedit". Navigate to the HKEY_LOCAL_MACHINE\SOFTWARE\BridgeStation\Settings tree node then right click on MainDBType and choose Modify. Change the value to 0 (zero). Click Ok



Using the Access Reports:
Depending on the version of Microsoft Access you are running on your PC you will need to download the appropriate BridgeReports.mdb:

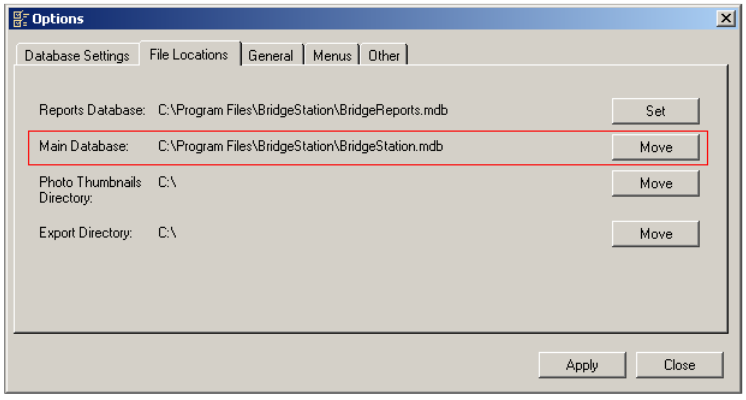
For Microsoft Access 2003 download the reports database: http://www.lobeg.co.uk/downloads/BridgeReports_2003.mdb
For Microsoft Access 2000 download the reports database: http://www.lobeg.co.uk/downloads/BridgeReports 2K.mdb

- Once you have dowloaded the appropriate reports .mdb make sure to save it somewhere easy to find (such as C:\program Files\BridgeStation).
- Launch BridgeStation PC version and click Tools > Options > File Locations Tab. Click the Set button next to Reports Database and select the recently dov



Making use of an existing database:
If you have had BridgeStation installed on another machine and wish to transfer the database:

1. Firstly, locate the old BridgeStation database called BridgeStation.mdb (normally located at C:\program Files\BridgeStation)
2. Make a copy of this .mdb and transfer it to the new PC
3. Launch BridgeStation PC Version on the new PC
4. click Tools > Options > File Locations Tab. Click the Move button next to Main Database Path and specify the folder location for the recovered BridgeStation.r



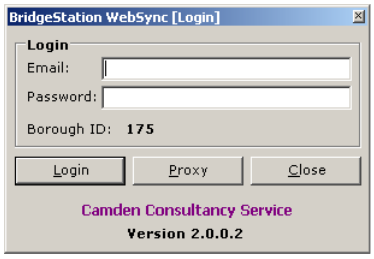
KB Article ID: 66

Running the BridgeStation WebSync Utility

Before running the WebSync application for the first time you should take a backup of your local database file (BridgeStation.mdb). Simply copy anything goes wrong, you can simply copy it back.

The WebSync application can be run from your Start Menu, it should be located in the BridgeStation folder.

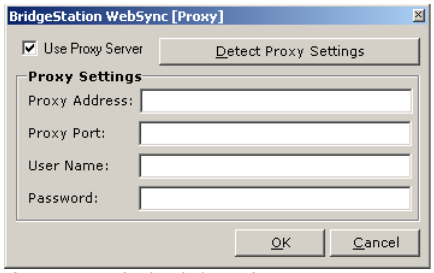
When first starting up, you need to enter your login details. This is the same login provided to you for using the web site.



When you click Login you may receive the msg: **Unable to connect to the BridgeStation Server. Please check your Proxy Settings**

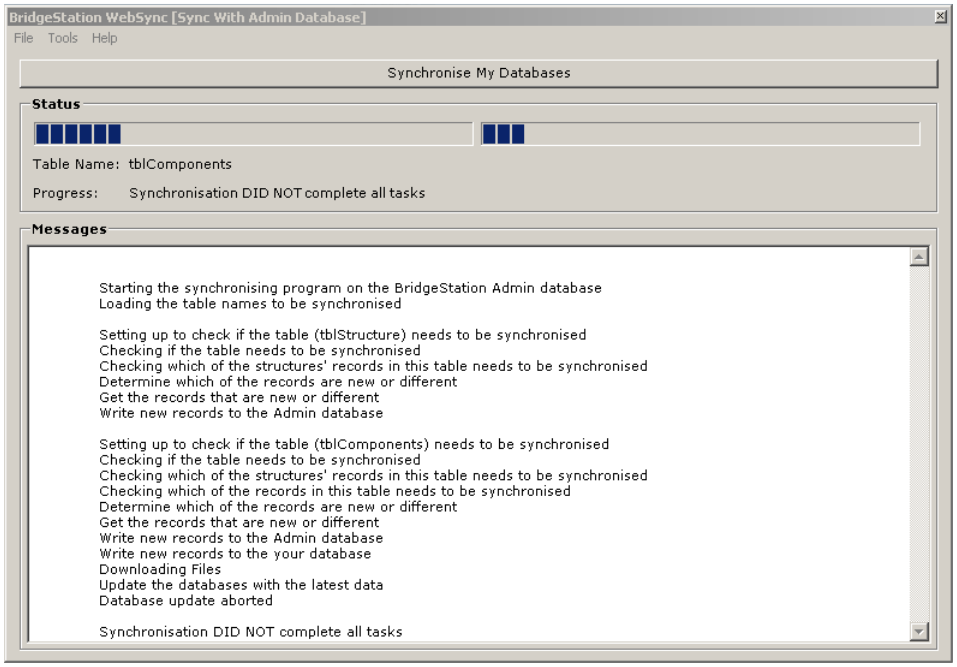
This means that you must first complete the proxy configuration. Click the Proxy button to get the below dialog:

1. In most cases you will need to leave the Use Proxy Server check box ticked.
2. Click the Detect Proxy Settings to automatically detect your networks settings.
3. Complete your network User Name and Password to finish the configuration.



If you require further help configuring you proxy settings you can contact you system adminstrator for advice.

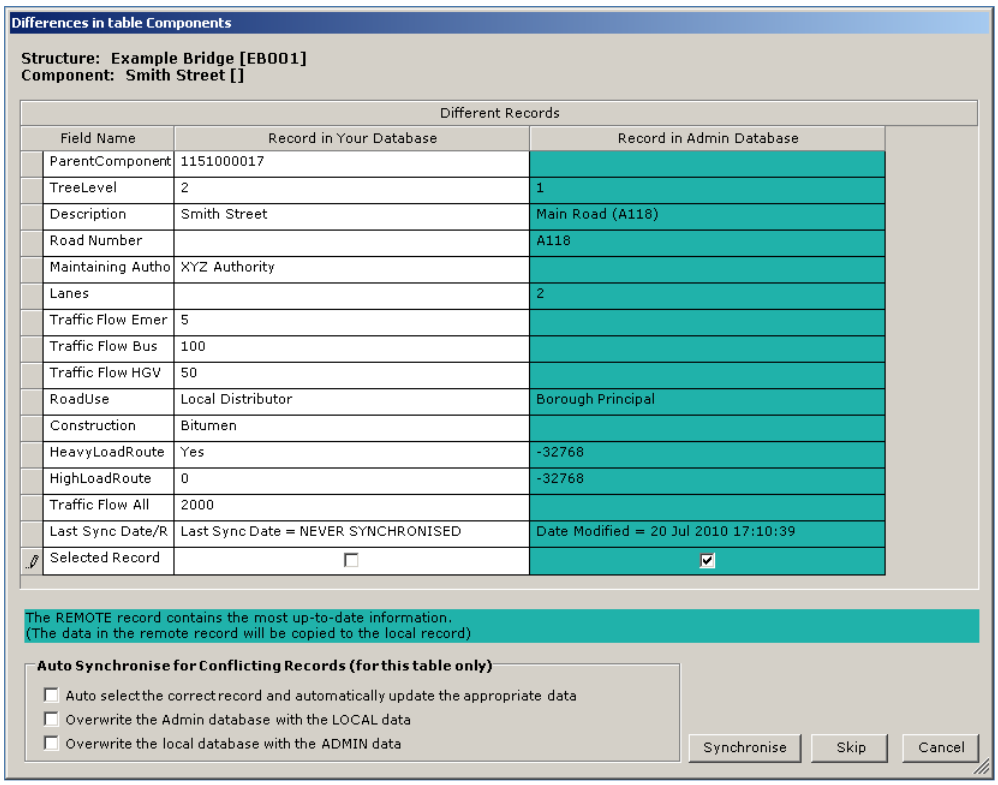
Once you have successfully logged in you should see this screen:


BridgeStation WebSync [Sync With Admin Database]
File Tools Help
Synchronise My Databases
Status
Table Name: tblComponents
Progress: Synchronisation DID NOT complete all tasks
Messages
Starting the synchronising program on the BridgeStation Admin database
Loading the table names to be synchronised
Setting up to check if the table (tblStructure) needs to be synchronised
Checking if the table needs to be synchronised
Checking which of the structures' records in this table needs to be synchronised
Determine which of the records are new or different
Get the records that are new or different
Write new records to the Admin database
Setting up to check if the table (tblComponents) needs to be synchronised
Checking if the table needs to be synchronised
Checking which of the structures' records in this table needs to be synchronised
Checking which of the records in this table needs to be synchronised
Determine which of the records are new or different
Get the records that are new or different
Write new records to the Admin database
Write new records to the your database
Downloading Files
Update the databases with the latest data
Database update aborted
Synchronisation DID NOT complete all tasks

From the Tools menu, select Options. You will note that there is a checkbox entitled 'Always Use Default Record…'. If this is checked, the utility will always over finds differences. You may like to tick this box before running the WebSync application for the first time to speed up the synchronisation process.

When you are ready, press the 'Synchronise My Databases' button to start the process.

If you haven't checked the the 'always select default' option. You will be prompted from time to time to choose which record to keep. A screen will pop up looki



Once you have synchronised all records, a dialog box will pop up and say 'synchronisation complete'.

KB Article ID: 65

WebSync Utility: Introduction and Installation

Introduction
The BridgeStation WebSync utility is a small application designed to synchronise data between a user's local BridgeStation database and the master web-based

Data is transferred in both directions, ie. if a new record is added to the web-based database then this will be downloaded down to the local database. Also, if a system it will be uploaded to the web-based system.

New records are automatically copied from one database to the other when they are found. The utility also examines existing records on each system to ensure been changed on one database, the system has to make a decision as to which record to keep and which to overwrite. The system will always recommend that older record be overwritten. The user has the option to view the data on each system and choose to follow the recommendation or override it.

Installation
To run the WebSync application, the PC must also have BridgeStation installed on it. Before proceeding, you should download and install the latest BridgeStatio latest version of BridgeStation is run at least once before attempting to run the WebSync application. This will ensure that necessary changes have been made

If you are running BridgeStation version 2.25 or below be sure to downloaded and install the latest patch to BridgeStation:

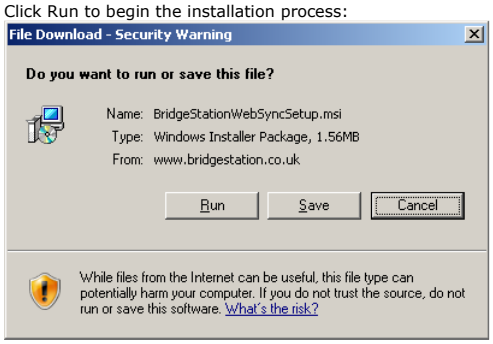
http://www.bridgestation.co.uk/downloads/bs_upg227.EXE

The WebSync application requires that the Microsoft Windows .Net Framework v1.1 be installed on the target machine. This is a standard component on recent installed, can be downloaded from the Microsoft site or installed using Windows Update.

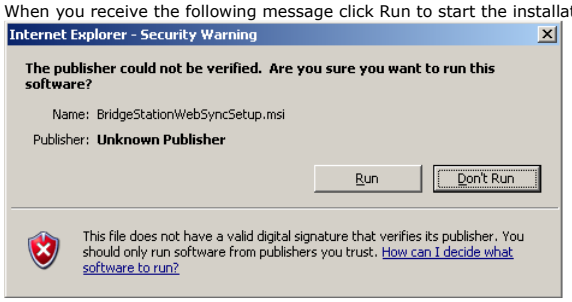
The WebSync installation file is called BridgeStationWebSyncSetup.msi. It can be downloaded from the following location:

http://www.bridgestation.co.uk/downloads/BridgeStationWebSyncSetup.msi

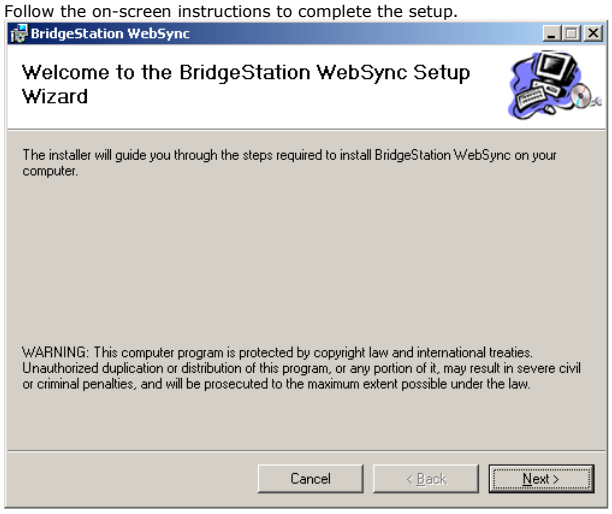
Click Run to begin the installation process:

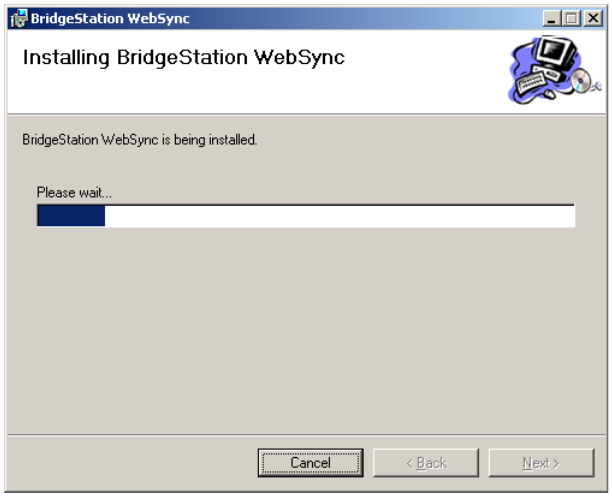

File Download - Security Warning
Do you want to run or save this file?
Name: BridgeStationWebSyncSetup.msi
Type: Windows Installer Package, 1.56MB
From: www.bridgestation.co.uk
Run
Save
Cancel
While files from the Internet can be useful, this file type can potentially harm your computer. If you do not trust the source, do not run or save this software. What's the risk?

When you receive the following message click Run to start the installation.

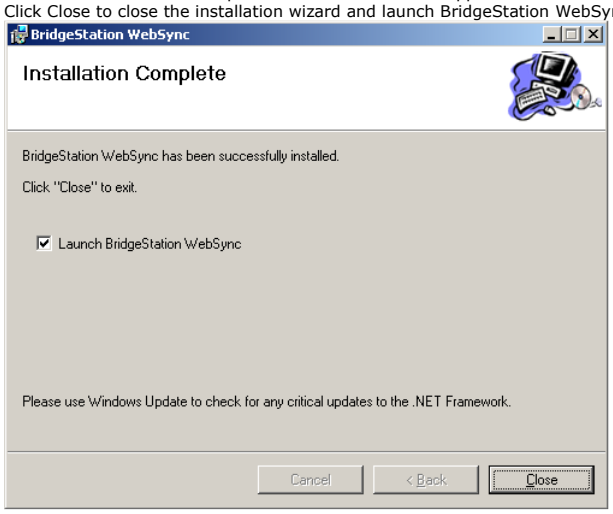

Internet Explorer - Security Warning
The publisher could not be verified. Are you sure you want to run this software?
Name: BridgeStationWebSyncSetup.msi
Publisher: Unknown Publisher
Run
Don't Run
This file does not have a valid digital signature that verifies its publisher. You should only run software from publishers you trust. How can I decide what software to run?

Follow the on-screen instructions to complete the setup.


BridgeStation WebSync
Welcome to the BridgeStation WebSync Setup Wizard
The installer will guide you through the steps required to install BridgeStation WebSync on your computer.
WARNING: This computer program is protected by copyright law and international treaties. Unauthorized duplication or distribution of this program, or any portion of it, may result in severe civil or criminal penalties, and will be prosecuted to the maximum extent possible under the law.
Cancel
< Back
Next >



Once the installation is complete the below screen will appear.
Click Close to close the installation wizard and launch BridgeStation WebSync.



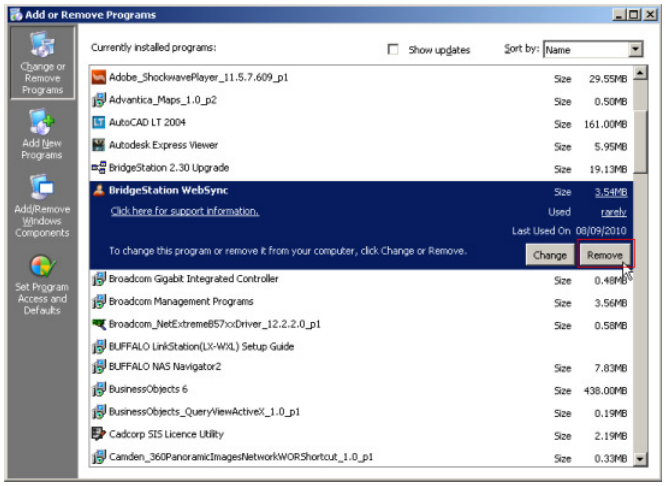
KB Article ID: 74

Uninstalling the BridgeStation WebSync Utility

Please note: To uninstall the utility you will need administrative rights to your computer

To remove the BridgeStation WebSync Utility start by clicking **Start > Settings > Control Panel > Add or Remove Programs**

- Locate the BridgeStation WebSync Utility in the currently installed program list
- Click Remove to begin the uninstall process


Add or Remove Programs
Change or Remove Programs
Add New Programs
Add/Remove Windows Components
Set Program Access and Defaults
Currently installed programs:
Show updates
Sort by: Name
Adobe_ShockwavePlayer_11.5.7.609_p1 Size 29.55MB
Advantica_Maps_1.0_p2 Size 0.50MB
AutoCAD LT 2004 Size 161.00MB
Autodesk Express Viewer Size 5.95MB
BridgeStation 2.30 Upgrade Size 19.13MB
BridgeStation WebSync Size 3.54MB
Click here for support information. Used rarely
Last Used On 08/09/2010
To change this program or remove it from your computer, click Change or Remove.
Change
Remove
Broadcom Gigabit Integrated Controller Size 0.48MB
Broadcom Management Programs Size 3.56MB
Broadcom_NetExtreme857xxDriver_12.2.2.0_p1 Size 0.58MB
BUFFALO LinkStation(LX-WXL) Setup Guide
BUFFALO NAS Navigator2 Size 7.83MB
BusinessObjects 6 Size 438.00MB
BusinessObjects_QueryViewActiveX_1.0_p1 Size 0.19MB
Cadcorp SIS Licence Utility Size 2.19MB
Camden_360PanoramicImagesNetworkWORShortcut_1.0_p1 Size 0.33MB

KB Article ID: 71

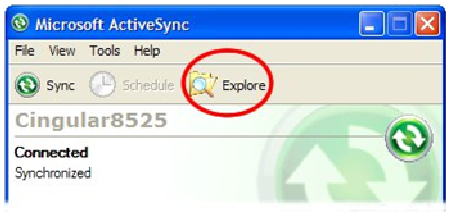
Installing BridgeStation Mobile

Supported operating systems:
Windows Mobile 6.0

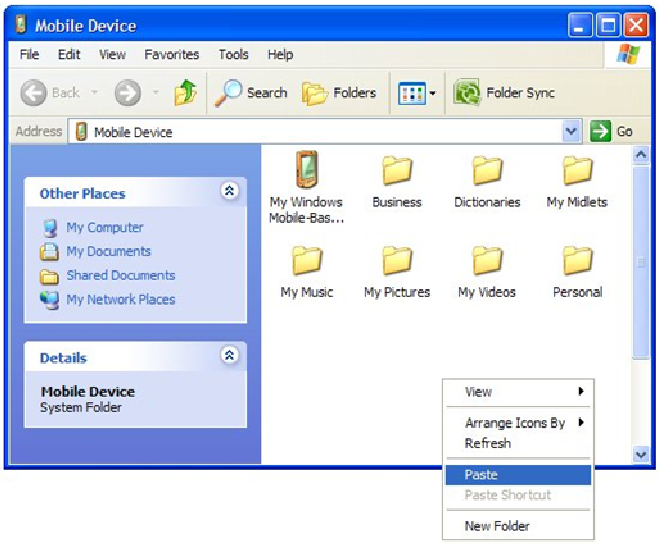
In most cases you will need to prepare your machine to sync with your mobile device. Advice and relevant downloads can be found by following this link:
http://www.microsoft.com/windowsphone/en-us/howto/wp6/sync/prepare-to-sync-windows-phone-6-5-with-my-computer.aspx

Installing BridgeStation Mobile
Some editions of Windows Mobile require that applications are installed directly from the mobile device itself.

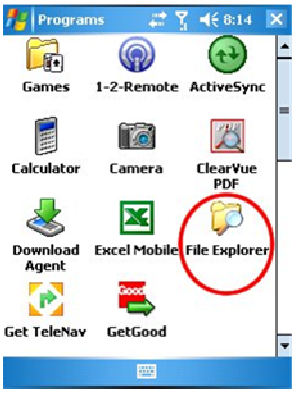
The first step is to move the .CAB installation file provided to you by the BridgeStation Support Department to the Windows Mobile device. First, sync your handheld with your Windows PC. After ActiveSync's main screen.



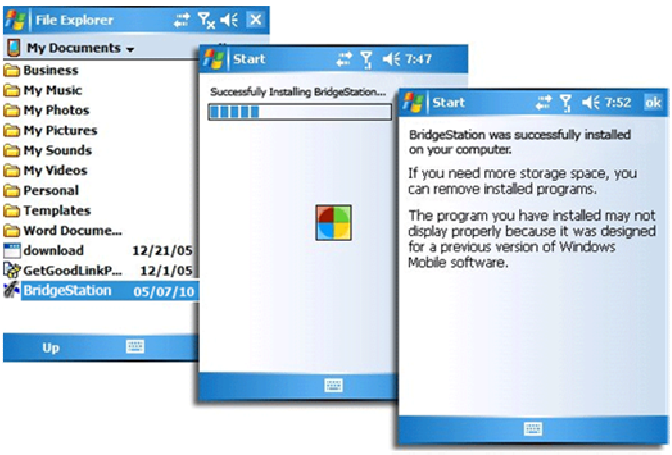
The Explore feature allows you to browse your device's internal storage like you would browse your computer's hard drive(s) in My Computer or Windows Explorer. Once the Mobile Device explorer wherever the file you want to move to the Windows Mobile device is stored. Right-click it. When the menu drops down, select Copy. Return to the Mobile Device explorer window, right-click somewhe



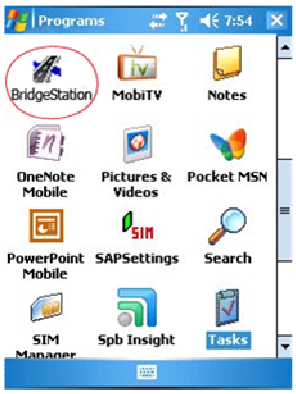
The .CAB file will be moved to the handheld. Allow this process to complete. Remove your device from its cradle or disconnect it from its sync cable. On your Windows Mobile handheld, go to File Expl



Find the file you moved in File Explorer. When you find it, double-click it. It will install itself on your handheld and add itself to the Start Menu or the Programs folder.



You're done. The program will now appear in the Programs folder:



Once the software has been installed, feel free to delete the .CAB file from your handheld's memory if you wish.

KB Article ID: 72

Completing a Mobile CSS Inspection

Logging into the System:

Complete your log in by using your BridgeStation Credentials.

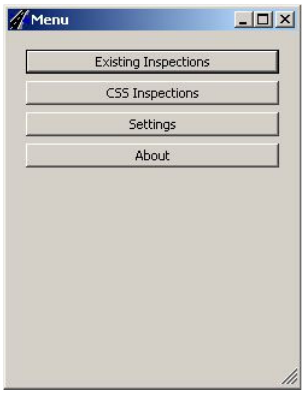
Click **Login** to connect to the Bridgestation Database

Click **Work Offline** in order to complete an offline inspection for upload to the BridgeStation system later.

Terms & Conditions
By logging into this device you are confirming that you have read, understood and accepted the conditions of use for this Mobile Application.
Accept
Decline

Accepting the Terms & Conditions

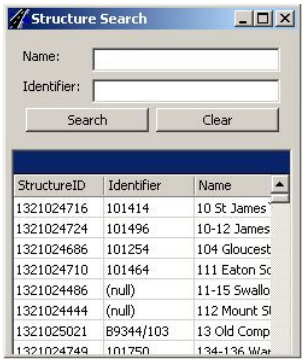
To comfirm that you accept the conditions of use for the application click the Accept button.



Begining a CSS Inspection

To start a new CSS inspection form click the **CSS Inspections** button

To view a previously completed CSS inspection click the **Existing Inspections** button



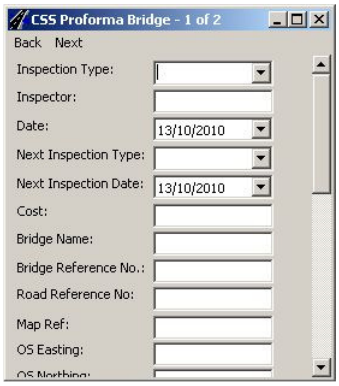
Searching for your Structure

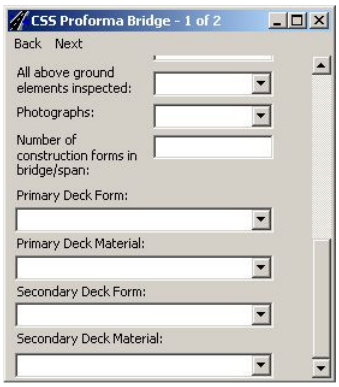
Use the Name and Identifier fields to narrow the search results.

Once you have located the structure you are interested in click on it's row to begin a CSS inspection proforma

Completing the Inspection Details CSS Proforma Section

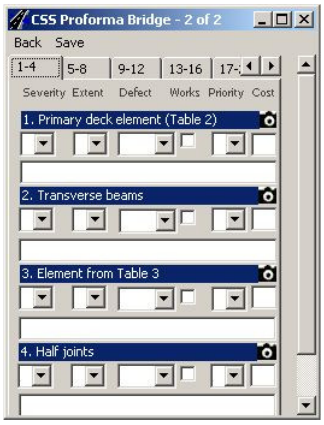
Use the drop downs and text input boxes and add the Inspection details.





Completing the Inspection Details CSS Proforma Section Continued...

Finish off the remaining fields and click **Next** to move to the next section.



Completing the second CSS Proforma Section

Begin completing the element condition information making use of the the drop downs and text input boxes.

To add a photo of a particular element click the corresponding camera icon to the right of the element label. This will activate your mobile device's camera function and allow you to take a photograph.

Your photo will be given the element name as its title.

Use the tabs to move between element groupings.

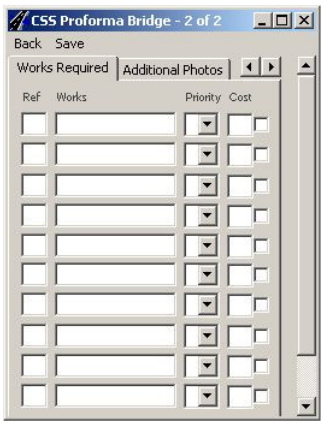
Completing the Comments CSS Proforma Section

Continue along the tabs to the Comments section

Completing the Works Required Section

Click the Works Required tab

Use the Ref column to specify the element reference, the Works column to describe the required works. Give the works a priority and cost



Adding Additional photographs to CSS Proforma Section

The application allows you to add eight additional photo graphs.

Click the Additional Photos tab and then the camera icon This will activate your mobile device's camera function and allow you to take a photograph.

Finally click Save to finish off your inspection.

KB Article ID: 73

Uploading Offline Inspections

Logging into the System:

Complete your log in by using your BridgeStation Credentials.

To upload previously completed offline inspections make sure to click **Login** to connect to the Bridgestation Database.

If you are connecting your mobile device to your PC via USB you may need to configure your device.

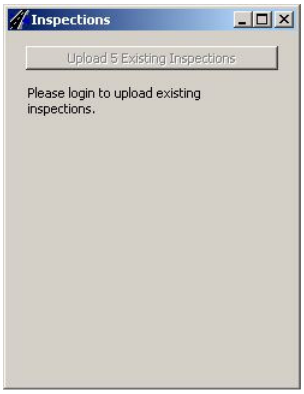
Terms & Conditions
By logging into this device you are confirming that you have read, understood and accepted the conditions of use for this Mobile Application.
Accept
Decline

Accepting the Terms & Conditions

To comfirm that you accept the conditions of use for the application click the Accept button.

Begining a CSS Inspection

To begin uploading previously completed CSS inspections click the **Existing Inspections** button



The inspection screen will open with a button at the top. The button will inform you of how many existing offline inspections are available on the device for upload.

If you have not logged into the BridgeStation system the button will be deactivated (greyed out).

To start the upload click the button at the top.

KB Article ID: 56

I get a blank screen when visiting the BridgeStation website.

I get a blank screen when visiting the BridgeStation website.

Make sure your local Internet is working by visiting another website such as www.msn.com. If you can't access it contact your system administrator. If you can follow these instructions:

1. Open Internet Explorer and click on the "Tools" menu.
2. Select "Internet Options."
3. Click on the "General" tab if it isn't selected already.
4. Under the heading "Temporary Internet files," click on "Delete Cookies..."
5. Click "OK" for the "Delete all cookies in the Temporary Internet Files folder?" prompt.
6. Click "OK" to exit.

KB Article ID: 57

I am unable to login to the BridgeStation website.

I am unable to login to the BridgeStation website.
Make sure you are entering the correct email address and password combination. Please note that the password is case sensitive

I have forgotten my BridgeStation login details and/or my login details aren't working.
Click on the 'Forgotten Password' link and complete your details. An email reminder will be sent to your registered address. Alternatively contact Camden Consu

KB Article ID: 58

I have found a bug on the BridgeStation website.

I have found a bug on the BridgeStation website.
Please report it to Camden Consultancy Service at 020 7974 8951.

KB Article ID: 59

I get a msg " You do not have sufficient BridgeStation security privileges to perform that action"

I get a msg " You do not have sufficient BridgeStation security privileges to perform that action"

If you keep getting the above message, or are continually redirected to the BridgeStation login page your security updates for Microsoft Internet Explorer may b

The details of the Security Update are below. You may require assistance from your System Adminstrator to install the patch.

MS07-045: Cumulative Security Update for Internet Explorer - http://support.microsoft.com/kb/937143/.